



LAS POSITAS COLLEGE

ACADEMIC CATALOG
2021-2022



Welcome to Las Positas College!

Congratulations for making the decision to attend Las Positas College. These are challenging times, and I honor you for your determination to pursue your education. The college is well prepared to provide you with excellent instruction and high-quality support services during these unprecedented times.

You've chosen to pursue your goals at a college that is nationally recognized for educational excellence and student success. Las Positas College is the 14th best community college in the country compared to more than 650 community colleges, according to WalletHub. This ranking is based upon where students receive the best education at the lowest price. This recognition is due to our caring and dedicated faculty, staff, and administrators who are committed to supporting you in achieving your educational goals. Whether your goal is to earn an associate degree, a certificate, transfer to a four-year college or university, or acquire skills that will lead you to a better paying job, LPC can help get you there.

You will discover that this catalog is a great resource for you as you begin your journey. Inside you will find a comprehensive range of academic programs and information about each degree or certificate that Las Positas College offers. You will also find valuable information regarding student support services, academic resources, and opportunities to be involved in co-curricular programs and activities.

Las Positas College is more than academics. We believe in nurturing the whole student, to allow you to develop your confidence, your creativity, your leadership skills, while we acknowledge and value your personal experiences and diverse background that make you who you are.

The most important thing for you to know is that you are not alone on your educational journey; we are here to assist and support you. I encourage you to make the most of your LPC experience and take advantage of the many student resources and opportunities that are available to you.

Thank you for choosing Las Positas College. I look forward to meeting you, virtually, and in person when it is safe to do so.

Sincerely,



Dyrell Foster, Ed.D.
College President
Las Positas College





2021-2022 Academic Calendar

Fall 2021

Monday	August 16	Convocation Day
Tuesday	August 17	College Division Day
Wednesday	August 18	Classes Start
Monday	September 6 ¹	Labor Day Holiday ¹
Friday	November 12	Veterans' Day Holiday (Observed)
Wednesday – Friday	November 24-26 ¹	Thanksgiving Holiday ¹
Tuesday	December 14	Last Day of Instruction
Wednesday	December 15	Finals
Thursday	December 16	Finals
Friday	December 17	Finals
Saturday	December 18	Saturday Finals
Monday	December 20	Finals
Tuesday	December 21	Finals
Monday	January 3, 2022 by 11 p.m. via Internet	Grades Due

Spring 2022

Monday	January 17	Martin Luther King Holiday
Tuesday	January 18	Classes Start
Friday – Monday	February 18 – 21 ¹	Presidents' Weekend Holiday ¹
Monday – Saturday	April 4 – April 9 ¹	Spring Break ¹
Friday	May 20	Last Day of Instruction
Saturday	May 21	Saturday Finals
Monday	May 23	Finals
Tuesday	May 24	Finals
Wednesday	May 25	Finals
Thursday	May 26	Finals
Friday	May 27	Finals
Friday and Saturday	May 27 and May 28*	Commencement Ceremony
Monday	May 30	Memorial Day Holiday
Thursday	June 2, 2022 by 11 p.m. via Internet	Grades Due

¹No Saturday classes.

*Commencement is scheduled on the same workday at a particular college two Academic Years in a row then switched to the other day for two Academic Years in a row. (Article 8C.3)

1 Variable Flex Day for Faculty for the year

Summer 2021 Window Period: Tuesday, May 31 to Thursday, August 5, 2021
Monday, July 5, 2021 Independence Day Holiday
Grades Due: Monday, August 9, 2021 by 11 p.m. via Internet

* Holiday/All Employees

Note: The calendars noted above refer to regular, full-term classes only. Refer to current Schedule of Classes or the College website for short-term or late-start classes and for "NGR," "W," "Census," & "60% financial aid" deadline dates. You will also find deadlines on "CLASS Web" or ask your instructor for specific course deadline information.

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Directory

Academic Services 925.424.1104
Administrative Services925.424.1631
Admissions & Records..... 925.424.1500
Assessment Center 925.424.1475
Bookstore.....925.424.1812
CalWORKs.....925.424.1459
Campus Safety & Security 925.424.1690
Community Education..... 925.424.1467
Counseling 925.424.1400
Disabled Student Programs & Services (DSPS).....925.424.1510
Extended Opportunity Programs & Services (EOPS)925.424.1598
Fax (No Charge)..... 925.443.0742
Financial Aid 925.424.1580
Foundation925.424.1010
General Information..... 925.424.1600
International Student Program 925.424.1540
Library (LRC).....925.424.1150
Office of the President 925.424.1001
Student Government 925.424.1490
Student Health & Wellness Center 925.424.1830
Student Services..... 925.424.1406
Tutorial Center 925.424.1450
Veterans Program925.424.1571

Division Offices

Arts & Humanities (A & H) 925.424.1383
Public Safety, Advanced Manufacturing, Transportation, Health, and
Kinesiology (PATH)..... 925.424.1274
Business, Social Science, and Learning Resources (BSSL).....
925.424.1322
Science, Technology, Engineering and Math (STEM) ...925.424.1183

CHABOT- LAS POSITAS COMMUNITY COLLEGE DISTRICT

The Chabot-Las Positas Community College District has provided quality education to residents of the San Francisco Bay Area for fifty years. The voters approved the formation of a “junior college district” on January 10, 1961 and the first board of trustees was elected on April 18, 1961.

In addition to the traditional and career and technical curriculum offered at the Colleges, the District conducts an active outreach program in contract education to help business, industrial and public organizations develop training programs tailored to meet their needs.

Board of Trustees

The Chabot-Las Positas Board of Trustees governs the Chabot-Las Positas Community College District and is responsible for all policy decisions. The Board meets twice a month.

Name/Position	Area Represented	Year First Elected
Genevieve Randolph	Area 3: Union City, South Hayward	2017
Luis Reynoso, Ed.D.	Area 1: Hayward	2020
Linda Granger	Area 2: San Leandro	2018
Maria L. Heredia	Area 4: Castro Valley, portions of Oakland	2019
Hal G. Gin, Ed.D. Past President	Area 6: Hayward, San Lorenzo	2005
Edralin Maduli President	Area 7: Livermore, portions of Pleasanton	2016
Tim Sbranti	Area 5: Pleasanton, Dublin, Sunol	2019

Administration

District

Ronald Gerhard

Chancellor

Wyman Fong

Vice Chancellor, Human Resources

Owen Letcher

Vice Chancellor, Facilities and Bond Program

Theresa Fleischer Rowland, Ed.D.

Vice Chancellor, Educational Services & Student Success

Jonah R. Nicholas

Vice Chancellor, Business Services

Las Positas College

Dyrell Foster, Ed.D.

President

Kristina Whalen, Ph.D.

Vice President of Academic Services

Vacant

Vice President of Student Services

Anette Raichbart-Saxe

Vice President of Administrative Services

Amy Mattern

Dean of Academic Services

Nan Ho

Dean of Academic Services

Erick O. Bell

Interim, Dean of Academic Services

Stuart J. McElderry, Ph.D.

Dean of Academic Services

Tamica S. Ward

Dean of Enrollment Services

Elizabeth David

Dean of Student Services

Shawn Taylor

Director, Student Equity and Success

Rajinder Samra

Director of Research, Planning, and Institutional Effectiveness

Kenneth G. Cooper

Executive Director, LPC Foundation

Vicki Shipman

Project Manager, Career-Technical Education

Angela M. Lopez

Program Director, Child Development Center

Emerald W. Templeton

Project Manager, Educational Partnerships

Chad J. McMullen

Public Safety Programs Manager

Stephen Gunderson

Manager, College Technology Services

California Community Colleges

Governance Structure

The California Community Colleges operate under the governance of the State Chancellor, the State Board of Governors appointed by the Governor, and local districts with their own locally elected governing boards. The California Community College's System Office and Board of Governors oversee the distribution of funds apportioned by the State Legislature for use by the Community Colleges. California's Community Colleges are organized into 72 community college districts. Each college within a district has a president or chancellor/superintendent, and each district has its own elected board of trustees who apportion funds and governs the colleges within its district.

Mission of the California Community Colleges

By law, the California Community Colleges shall admit any person who is a high school graduate or equivalent thereof, or who is eighteen years of age or older, and who can benefit from the instruction offered.

A primary mission of the college is to offer academic and career and technical education at the lower division level. Another primary mission is to advance California's economic growth and global competitiveness through education, training, and services that contribute to continuous workforce improvement. Essential and important functions of the colleges include: basic skills instruction and in conjunction with the school districts, instruction in English as a Second Language, adult noncredit instruction, and support services which help students succeed at the postsecondary level.

The Board of Governors shall provide leadership and direction in the continuing development of the California Community Colleges as an integral and effective element in the structure of public higher education in the state.

LAS POSITAS COLLEGE

Located in the East Bay region of Northern California, Las Positas College is situated amid one of the state's fastest growing areas for business, science, and technology. Gently rolling hills and picturesque vineyards provide the scenic background for the college's 147-acre campus.

Las Positas College is one of two separately accredited colleges in the Chabot-Las Positas Community College District. The College is a public institution and principally serves citizens from the communities of Dublin, Livermore, and Pleasanton, and several unincorporated areas including Sunol and north Livermore.

Las Positas College currently enrolls approximately 9,000 students and offers curriculum for those seeking transfer to a four-year college or university, career preparation, or basic skills education. The College provides university transfer classes, retraining classes for those in need of employment or career advancement, a first-time educational opportunity for many adults, and career and technical training for those entering the technical and para-professional work force. Las Positas College excels in helping students transfer to the University of California system, the California State University system, and other four-year institutions.

Students who come to the College can choose any of 28 Associate Degrees for Transfer (ADTs), 57 Associate Degrees, 90 Credit Certificate Programs, and 15 Noncredit Certificate Programs. In addition, the College offers community education courses geared toward personal development and cultural enrichment. See the full list in the Transfer, Degree and Certificate Programs section.

Academic rigor is maintained in a friendly, welcoming atmosphere. Las Positas College faculty and staff are distinguished by their energy, creativity, and commitment to making a difference in the lives of the students they serve. Las Positas College is a learning-centered institution focused on excellence and student success, and is fully committed to supporting all Tri-Valley residents in their quest for education and advancement.

The campus is accessible from Bay Area Rapid Transit (BART) and Interstate 580. Students can take buses from the Pleasanton-Dublin BART station and from many locations in Dublin, Livermore, and Pleasanton. The College is proud of its exceptional safety record—making it one of the safest colleges in the Bay Area—and its commitment to sustainability, including LEED facilities, recycling and reduced-usage practices, and photovoltaic (solar) arrays that generate two megawatts of energy.

History of the College

Las Positas College began as an extension center of Chabot College in 1963, offering 24 classes and enrolling 810 students at Livermore High School and two other sites. By 1965, the program had expanded and moved to Granada High School in Livermore. It subsequently grew to include Amador and Dublin High Schools as well. The District purchased the Livermore site that same year, intending to develop a comprehensive community college. On March 31, 1975,

“Valley Campus” opened as the Livermore Education Center of Chabot College.

Las Positas College has since developed into a fully accredited comprehensive institution. In 1988, the College was designated by the Board of Governors to be an independent college. Las Positas College received full accreditation on January 7, 1991 from the Accrediting Commission for Community and Junior Colleges.

Institutional Planning

Las Positas College developed an Educational Master Plan (EMP) that articulates the institution’s goal and strategies for advancing the College’s mission from 2021 to 2026. The plan guides the College in strengthening student achievement, planning for current and future needs, transforming infrastructure, and informing the resource allocation process and staffing priorities. The goal and strategies established in the EMP are based on a year-long process that began in January of 2020.

The plan’s goals are derived from the robust input from faculty, students, and classified professionals and data received from Las Positas College’s Office of Research, Planning, and Institutional Effectiveness. The EMP helps the College accommodate the educational needs of approximately 235,000 service-area residents, and address the major demographic, economic and educational trends, opportunities, and challenges the College will face in the upcoming years.

Las Positas College continues its development and assessment efforts by working to further integrate processes for planning and resource allocation. To measure its performance and evaluate its effectiveness in achieving its mission, the College relies upon participation from all constituency groups and data on student, program, and institutional success.

Las Positas College Mission Statement

Las Positas College provides an inclusive, learning-centered, equity-focused environment that offers educational opportunities and support for completion of students’ transfer, degree, and career-technical goals while promoting lifelong learning.

- **Glossary of Terms** – the multiple meanings of the terms used in the Mission Statement are below:
- **Inclusive** – welcoming of a diverse group of students including but not limited to: all race-ethnicity groups, all ages, all genders, lesbian, gay, bisexual, transgender+, first generation, students with disabilities, veterans, students with children, all socio-economic backgrounds, including those from economically disadvantaged backgrounds, undocumented, international, multicultural, religious beliefs and practices—all with varying skill levels and learning styles.
- **Learning Centered** – refers to courses, programs, disciplines, modes of delivery, learning communities, accounting for varying skill levels and learning styles, creative and critical thinking, and having necessary and specialized facilities.
- **Educational opportunities** – include but are not limited to classroom and Distance Education (DE) instruction, athletics, field trips, guest speakers, student government, cultural opportunities, clubs, labs, internships, tutoring service, workshops, library research, career training, and mentoring

- **Support** includes tutoring services, Reading and Writing Center, learning communities, student workshop opportunities, counseling, faculty office hours, Math Learning Center, supplemental instruction, Admissions and Records, advisory boards, Health and Wellness Services, financial aid, evening services, veteran services, learning management system, online courses, online counseling, online tutoring, technology support for online students, food pantry, cafeteria, bookstore, technology, appropriate pathways, assessment, Child Development Center, Library, Computer Center, technical support, Student Services, programs for traditionally marginalized students, Administrative Services; all provided by a dedicated group of faculty, classified professionals, and administrators.

Vision Statement

Las Positas College strives to support and empower students to develop the knowledge, skills, values, and abilities needed to become engaged participants and leaders in their local and global communities.

Values Statement

Las Positas College thrives as a collaborative teaching and learning community committed to integrity and excellence by:

- Encouraging and celebrating lifelong learning
- Responding to the needs of the ever-changing workplace and society
- Demonstrating civic, social and environmental responsibility
- Promoting ethical behavior, mutual trust, equity, and respect within our diverse community
- Fostering a climate of discovery, creativity, personal development, and physical and mental health
- Ensuring that Las Positas is a sanctuary campus for undocumented students
- Holding firm to the belief that each of us makes an astonishing difference.

Institutional Goals

- **Educational Excellence:** Ensure excellence in student learning through quality academic programs and support services.
- **Community Collaboration:** Ensure excellence in student learning by collaborating with community partners to provide educational opportunities that best serve the needs of our students and our community.
- **Supportive Organizational Resources:** Ensure excellence in student learning by strengthening fiscal stability, providing appropriate staffing levels, meeting evolving technology needs, and expanding or updating facilities.
- **Organizational Effectiveness:** Ensure excellence in student learning by improving organizational processes, promoting safety and wellness, and fostering professional development.
- **Equity and Anti-Racism:** Ensure excellence in student learning by prioritizing equity and anti-racism.

Academic Freedom

Academic freedom protects teaching and learning by encouraging the free flow of ideas.

Academic Freedom exists to promote freedom to:

- Inquire
- Teach and express ideas or facts without constraint
- Engage in intellectual debate
- Develop, nurture, and exchange ideas and opinions
- Encourage creativity in academic endeavors

Academic Freedom ensures freedom from:

- Imposition of political, religious, or philosophical beliefs of others
- Reprisal
- Censorship

Academic Freedom carries the responsibilities implicit in all freedoms: truth, honesty, integrity, and respect.

The complete scope of Academic Freedom rights for faculty is set forth in Article 23 of the CLPCCD-CLPFA collective bargaining agreement and the “Academic Freedom Statement” Appendix to the CBA. CLPCCD Board Policy 4030, “Academic Freedom,” further details the District’s commitment to Academic Freedom.

Las Positas College General Education

General education is a significant part of the program of studies in American colleges and universities. The term general education refers to a program of studies intended to broaden students’ minds and enrich their personal, social, and cultural understanding through exposure to a breadth of academic disciplines. Students develop skills and aptitudes that prepare them to contribute to and participate in society and the democratic process.

General Education Philosophy

A philosophy of general education addresses both a present reality and a future hope. The reality encompasses the practical elements a well-educated student should grasp early in education. The future hope will serve as a foundation to achieve insights into ethical problems and engage in lifelong learning, the hallmarks of educational excellence.

General Education:

- Provides skills and proficiencies needed to succeed in an academic environment as well as in our continually changing world.
- Exposes students to core knowledge, concepts, and methodologies of the Arts, Humanities, and the Natural and Social Sciences.
- Develops students’ appreciation for the cultures and history of the United States and prepares them to participate in our democracy.
- Familiarizes students with a diversity of viewpoints by exposing them to the history and cultures of other countries.

- Advances students’ critical thinking skills, enabling them to access, examine, and assess issues and information.
- Hones students’ reading, speaking, and writing skills, enabling them to communicate clearly, effectively, and creatively.
- Promotes the development of students’ quantitative competencies, to strengthen analytical thinking, and gain the ability to evaluate and access informational technology.
- Increases students’ understanding of the physical and biological sciences, the scientific method, and the reliability and limitations of scientific knowledge.
- Deepens students’ awareness of wellness and teaches the methods for and importance of maintaining physical and mental health.
- Encourages students to cultivate new interests and develop their abilities to search for answers, recognizing that an educated person understands how much more there is to learn.

Student Learning Outcomes

Student Learning Outcomes (SLO) are the knowledge, skills, and attitudes that students are expected to achieve or derive subsequent to a learning experience. SLOs encompass students’ ability to synthesize discrete skills using higher level thinking processes in order to apply what they have learned. SLOs are assessed at the course level, the program level, and the institutional level in regular cycles to encourage collegial dialogue about student learning and student success. SLOs for each course can be found in the course syllabus. SLOs for each degree and certificate can be found in the college catalog. There are five broad institutional level SLOs.

Institutional Student Learning Outcomes

Institutional Student Learning Outcomes (ISLO) represent the major areas of knowledge that students will gain when completing the general education sequence of courses (often as part of a degree). When our students have completed the general education sequence, they will be proficient in:

- **Communication:** Read Critically, Write Effectively, Communicate Orally, Communicate Visually and Symbolically
- **Critical Thinking:** Recognize and Define, Gather and Evaluate Information, Reason, Solve Problems, Make Decisions
- **Creativity and Aesthetics:** Develop Ideas, Identify Values, Understand Artistic Expression, Interpret Influences, and Identify Contributions
- **Respect and Responsibility:** Respond Appropriately, Ethics, Conflict Resolution, Self-Advocacy, Community Involvement, Impact of Human Activity, Intercultural Values
- **Technology:** Evaluate Technology, Use Technology, Ethical and Safe Practices, Apply to Problems

Institutional Accreditation

Las Positas College is a public, two-year community college accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges (10 Commercial Boulevard, Suite 204, Novato, CA 94949, (415)506-0234), an institutional accrediting body recognized by the

Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education. Questions regarding the College's accreditation may be addressed to this agency. The University of California, California State University, and private universities and colleges accept appropriate courses for transfer. The College is approved for the training of veterans and for enrolling non-immigrant students.

Programmatic Accreditation

Public Safety

California State Fire Marshal
2251 Harvard Street, Suite 400, Sacramento, CA 95815.
(916) 568-3800

The Las Positas College Paramedic Training Program has been approved by the California State EMS Authority through the Alameda County EMS Agency until May 31, 2020. The Las Positas College Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). This accreditation is initial and expires on March 31, 2022.

To contact CAAHEP: 25400 US Highway 19 North, Suite 158, Clearwater, FL 33763, Phone: (727) 210-2350, Fax: (727) 210-2354
<http://www.caahep.org>

To contact the CoAEMSP: 8301 Lakeview Parkway Suite 111- 312, Rowlett, TX 75088; Phone (214) 703-8445; Fax (214) 703-8992; or www.coaemsp.org.

Automotive Technology

ASE Program Accreditation in: Master Automobile Service Technology. 1503 Edwards Ferry Rd., NE Suite 401, Leesburg VA 2017. Accreditation Expiration Date: 2/1/2030

Statement of Compliance

Las Positas College maintains an atmosphere that is welcoming to all students and conducive to their academic and personal success. The College provides an environment free of all forms of harassment, in which all students and employees are treated with dignity and respect.

Las Positas College does not discriminate on the basis of race, color, national origin, gender, physical ability, religious belief, or age in any of its policies, procedures or practices. Las Positas College is in full compliance with:

- **Title VI of the Civil Rights Act (1964)** — pertaining to race, color and national origin;
- **Title VII of the Civil Rights Act (1964)** — pertaining to religion and gender;
- **Title IX of the Educational Amendments (1972)** — pertaining to gender;
- **Sections 503 and 504 of the Rehabilitation Act (1973)** — pertaining to disability;
- **Age Discrimination in Employment Act (1974)** — pertaining

to age;

- **Americans with Disabilities Act (1990)** — pertaining to disability.

Limited English skills are not a barrier to programs and services of the College. No person shall be subjected to sexual overtures or conduct—verbal, visual or physical—which is intimidating, hostile, offensive or unwelcome. Such conduct by employees or students is unacceptable and will not be tolerated by the College.

To inquire about the application of Non-Discrimination Policies contact:

Wyman Fong
Vice Chancellor of Human Resources
(925)485-5261 or email: wfong@clpccd.org

To Inquire about the Application of Sexual Harassment Policies contact:

Wyman Fong
Vice Chancellor of Human Resources
(925)485-5261 or email: wfong@clpccd.org

To inquire about the application of Disability Issues, Student Concerns and Grievances contact:

Elizabeth David
Dean of Student Services
(925) 424-1420 or email: edavida@laspositascollege.edu

Inquiries may also be addressed to the:

United States Department of Education Office for Civil Rights
San Francisco Office, Old Federal Building
50 United Nations Plaza, Room 239
San Francisco, CA 94102-4912
Tel: (415) 556-4275/Fax: (415) 437-7783

Changes in Rules and Policies

Although every effort has been made to assure the accuracy of the information in this Catalog, students and others who use this Catalog should note that laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of the Chabot-Las Positas Community College District, or by the Chancellor or designee of the institution.

Internet Access

Online access is available via the Las Positas College website at: www.laspositascollege.edu

Website Disclaimer

The Chabot-Las Positas Community College District (CLPCCD) attempts to maintain the highest accuracy of content on its Web sites. Any errors or omissions should be reported for investigation.

CLPCCD makes no claims, promises, or guarantees about the absolute accuracy, completeness, or adequacy of the contents of this Web site and expressly disclaims liability for errors and omissions in

the contents of this Web site. No warranty of any kind, implied, expressed, or statutory, including but not limited to the warranties of non-infringement of third party rights, title, merchantability, fitness for a particular purpose, and freedom from computer virus, is given with respect to the contents of this Web site or its hyperlinks to other Internet resources. Reference in this Web site to any specific commercial products, processes, or services, or the use of any trade, firm, or corporation name is for the information and convenience of the public, and does not constitute endorsement, recommendation, or favoring by the CLPCCD or its employees or agents.

This Web site has links to sites that may be useful to the public and that may provide other services or information. When the user links to another Web site, which is not an authorized CLPCCD Web site, the user is no longer on a CLPCCD Web site. The CLPCCD disclaims any responsibility or liability for the services or information provided on non CLPCCD Web sites.

Photography Disclaimer

Chabot and Las Positas Colleges, being non-profit California Community Colleges, reserve the right to use photography and video images of students and visitors, age 18 and older, taken on our property and at college-sponsored events for marketing and promotional purposes. Objection to the use of an individual's photograph may be made in writing to the district office of marketing and public relations, addressed to:

Director, Public Relations, Marketing and Government Relations
Chabot-Las Positas Community College District
7600 Dublin Blvd., 3rd Floor
Dublin, CA 94568

ADMISSIONS AND RECORDS

Admission Policies and Procedures

Eligibility for Admission

Admission is open to anyone who is 18 years old or older; or a high school graduate or completed a high school equivalency test, General Education Degree (GED), or California High School Proficiency Exam. A high school student currently enrolled in 10th, 11th or 12th grade may participate in the Concurrent Enrollment Program.

Ability to Benefit from Instruction

Under the provisions of the California State Education Code and Governing Board Policy of this District, a student's ability to benefit from the instruction offered shall be determined by evidence of the individual's:

- Ability to meet the demands of college instruction at Las Positas College;
- Ability to master, and proceed beyond, the minimum basic skill levels required for success in college education;
- Ability to show substantial progress in cognitive and affective

learning in college courses; and

- Ability to show progress toward independent learning.

By this rule, the College shall determine whether a person is or is not capable of benefiting from college instruction. The determination of ability to benefit is a matter of composite professional judgment based upon available evidence. Additional information may be obtained from the Office of the Dean of Student Services.

Admission Application Procedures

An applicant may apply for admissions to the College through OpenCCC. Complete an application online at www.opencccapply.net/uPortal/f/u6311s1000/normal/render.uP

Admission with Advanced Standing

Credits earned at other accredited colleges or universities may be applied towards an associate degree from Las Positas College upon receipt of official transcripts. Accreditation must have been listed in the Accredited Institutions of Higher Education manual. Credit may also be allowed for college-level United States Air Force Institute courses and for formal courses taken at military service schools if such credit is recommended in the American Council on Education Guide.

Readmission from Dismissed Status

Students on dismissed status from Las Positas College must submit a "Petition for Readmission from Dismissed Status" form. In order to enroll in classes, the Dean of Student Services must approve readmission. Petition forms are available at the Counseling Department.

Special Admissions – Concurrent Enrollment

Las Positas College provides the educational opportunity for high school students in 10th, 11th, and 12th grades to enroll in college-level courses. Students who desire to participate in concurrent enrollment must be recommended by their high school principal and have written parental permission. There are course restrictions for high school students which includes any basic skills, English as a Second Language (ESL) courses and Math 100 level courses. Information on the Concurrent Enrollment Policy is available at the student's high school, and Admissions and Records Office or online at <http://www.laspositascollege.edu/admissions/index.php>. Students must complete the required concurrent enrollment materials each semester or term and must have a high school grade point average (GPA) of 2.0 or higher.

Middle College

Middle College is an alternative education collaboration between Las Positas College and the Tri-Valley Regional Occupational Program. Middle College provides high school students from Dublin, Livermore, and Pleasanton an opportunity to begin taking college courses while still enrolled in high school. Students take classes at Las Positas College (up to 11 units per semester) and their enrollment fees are waived. Additional information is available online at www.laspositascollege.edu/middle-college/.

International Student Admission

Las Positas College is authorized under federal law to enroll

nonimmigrant alien students (F-1 and M-1 visa). Students seeking admission to Las Positas College must complete an international student supplemental application packet and submit academic transcripts or certificates, TOEFL or IELTS exam results and evidence of financial support and health examinations. Information on specific language proficiency requirements and amount of adequate financial support may be found on the college website.

Las Positas College will make every effort to advise prospective international students of their admission status as soon as possible after receiving the required documents. International students are encouraged to apply as far in advance of the desired entry date as possible to allow sufficient time for application processing and other arrangements. Contact the International Student Program for more information or visit

<http://www.laspositascollege.edu/international/index.php>.

The number of international students admitted is contingent upon the College's ability to provide services as required. International students will be accepted for admission to Las Positas College in the Fall and Spring semesters of each academic year. Contact the International Student Program for more information. For information on international student fees, refer to the "Fees and Refunds," section in this Catalog or consult the current class schedule.

Student & Exchange Visitor Information System

Student and Exchange Visitor Information System (SEVIS) is a government database program that was implemented by the Student and Exchange Visitor Program (SEVP), part of the U.S. Immigration and Customs Enforcement (ICE) branch of the U.S. Department of Homeland Security (DHS). This system maintains and tracks data of certain non-immigrants such as F-1 and M-1 students to ensure that students are in full compliance with DHS and College regulations. Las Positas College is a DHS certified institution, and as such, must provide data on F-1 and M-1 students and report any subsequent changes in status each semester in SEVIS.

Residency

For purposes of determining enrollment fees, students are identified as either residents or nonresidents.

Residents

Those who have lived in California as legal residents for at least one year and one day prior to the first day of a new semester/term and who can demonstrate intent to remain a California resident. Noncitizens who meet residency requirements and who desire to enroll as a California resident must provide documentation to the Admissions and Records Office.

Nonresidents

Those who do not meet the California resident requirements. In addition to the enrollment fee, nonresident students are required to pay tuition. For further information concerning residence status, contact the Admissions and Records Office.

Nonresident Tuition Exemption (Veterans)

Military veterans may be eligible for a tuition exemption based on VACA (Veterans Access, Choice and Accountability Act) criteria. Veterans who qualify for Chapter 30 or Chapter 33 GI Bill®, who live

in California and enroll within 3 years of discharge from active duty service of 90 days or more may be eligible for exemption of payment of nonresident tuition. For additional information, contact the Veterans First Program.

Nonresident Tuition Exemption (Concurrent Enrollment)

Concurrently enrolled students (high school students enrolled in college courses) who are classified as nonresident students for tuition purposes may be eligible for the Senate Bill 2364 waiver of nonresident tuition while still in high school. Students must be special admit part-time (enrolled in 11 units or less) students who currently reside in California and are attending high school in California. Students wishing to take advantage of this exemption should complete a nonresident exemption form and provide a copy of high school transcripts showing current enrollment. Documentation should be submitted to the Admissions and Records Office.

Nonresident Tuition Exemption (AB 540)

A California Nonresident Tuition Exemption may be granted to certain nonresident students who meet the exemption requirements set forth in Assembly Bill 540. To be eligible, students must have attended high school in California for three or more years or attainment of credits earned in California from a California high school equivalent to three or more years of fulltime high school coursework and a total of three or more years of attendance in California elementary schools, California secondary schools, or a combination of those schools. In addition, students must have graduated or will graduate from a California high school or obtained a certificate or General Education Development (GED), High School Equivalency Test (HiSET), or Test Assessing Secondary Completion (TASC). For additional information, contact the Admissions and Records Office.

Nonresident Tuition Exemption (Refugees and Special Immigrant Visa Holders)

In 2017, the California Legislature enacted Assembly Bill 343, which established a new exemption from nonresident tuition for refugees with a special immigrant visas (SIVs). For additional information, please contact the Admissions and Records Office.

Transcripts from Other Colleges & Universities

Students enrolled at Las Positas College who desire academic credit for courses taken at other regionally accredited colleges and universities must submit official transcripts of that work to the Admissions and Records Office. It is the student's responsibility to initiate a request to each institution asking that an official transcript of his/her work be sent directly to the Admissions and Records Office at Las Positas College. Transcripts received from other institutions cannot be forwarded to other colleges or universities. This does not apply to Chabot College, since academic information from both Chabot and Las Positas Colleges is recorded on the same transcript.

To be credited by Las Positas College, the course work must meet the following criteria:

1. The course(s) must have been taken at a regionally accredited college or university;

2. The course(s) must be lower division;
3. The course(s) must have been completed with a grade of “D” or higher. All transferred grades including “F”s will be used in the calculation of units attempted, units completed, and the grade point average. Intersegmental General Education Transfer Curriculum (IGETC) Certification requires a grade of “C”; and
4. The content of the course(s) must be determined to be equivalent to the current Las Positas College course standards.

The initial evaluation of course credit is to be completed by the Student Record Evaluators located in the Admissions and Records Office. The final responsibility for determining course equivalency is the discipline faculty.

Advanced Placement Examinations

Las Positas College grants credit for successful completion of the Advanced Placement Examinations. However, credit awarded will not be transcribed onto the LPC transcript and can only be used towards LPC degrees and prerequisites. For further information, see the section on Advanced Placement Examinations in this Catalog.

Cross Enrollment with University of California, Berkeley

Students who have completed one semester as a matriculated student at Las Positas College with a 2.0 cumulative grade point average (GPA), and are currently enrolled in a minimum of six units, may be eligible to cross enroll with the University of California (UC), Berkeley. A maximum of one course per term at UC Berkeley is allowed, and enrollment is on a space available basis. Additional requirements apply. For more information, contact the Counseling Department.

Cross Enrollment with California State University, East Bay

Students who have completed 20 transferable units at Las Positas College with a 2.0 cumulative grade point average (GPA) may be eligible to cross enroll with California State University (CSU), East Bay while completing coursework at Las Positas College. Students may elect to cross enroll in courses at CSU East Bay which are not offered by Las Positas College including upper division courses. Students must be enrolled in a minimum of 6 units at Las Positas College and 12 units between the two campuses. For more information, contact the Counseling Department.

Enrollment Status Based on Unit Load

- Full-time Student Registered for 12 or more units
- Three-quarter Student Registered for 9.0 to 11.5 units
- Half-time Student..... Registered for 6.0 to 8.5 units
- Less than half-time Student..... Registered for less than 6.0 units
- Noncredit only Student Registered for 0.0 units

STUDENT EQUITY & ACHIEVEMENT (SEA) PROGRAM

Student Equity & Achievement (SEA) program, created by the California Legislature, is a new program designed to help students succeed at Las Positas College. The program defines responsibilities of both the College and its students. The SEA program requires that students complete orientation, assessment, and a student educational plan (SEP) in order to receive priority registration dates at Las Positas College. By completing these core services, students not only receive priority registration, but also get to form a partnership with the College to help them develop and realize their educational goals. The SEA program helps students from the moment they apply until they complete their studies at Las Positas College.

Core Services

Orientation

To help with students’ transition to Las Positas College, an online orientation is offered for all students, including new, first-time college students. Within the orientation, members of the Las Positas College community will introduce students to the College’s programs, services, academic regulations, expectations, campus facilities, and student life. Completion of the orientation is required to participate in priority registration at Las Positas College. Visit CLASS-Web to access the online orientation. Students must apply for admission before completing the online orientation.

Assessment

Las Positas College has a new process for assessing students. Students can obtain proper placement into English, ESL, Foreign Languages and Math by answering questions on our self-guided placement tool on the CLASS-Web link located on our home web page. Students are also encouraged to submit transcripts from other regionally accredited colleges or universities, and other recognized standardized test results (e.g., Advanced Placement; International Baccalaureate, etc.) for placement consideration. Additional information may be obtained by contacting the Assessment Center or Counseling Department.

Student Educational Plan

Students are strongly encouraged to meet with a counselor to develop a Student Educational Plan (SEP). Student Educational Plans guide students to a timely and successful completion of personal and academic goals. Students with completed SEPs have higher completion and/or transfer rates for certificate and/or degree programs. Students receiving Veterans Affairs educational benefits are required to have a comprehensive student educational plan on file with the Veterans Office in order to receive VA educational benefits.

Track Your Degree Completion With Our Online Advising Tool DegreeWorks

Las Positas College (LPC) offers an online advising tool to help you keep track of your educational progress. DegreeWorks (DW) allows you to view your Student Educational Plan and confirm what course you have completed, as well as what courses remain, toward meeting your educational objective(s). DW matches your academic and course history, as well as your current course schedule, against the degree requirements as defined in the LPC College Catalog. Thinking about adding a major, or changing your goal? DW also gives you the opportunity to explore “What If Scenarios,” to determine how your courses meet requirements for programs other than your current declared major. For questions about your educational goal or to change your Student Educational Plan, please make an appointment with an academic counselor.

To access DegreeWorks, follow these steps:

1. Visit the LPC Home Page and login to CLASS-Web
2. Once logged in, navigate to the Student Service Tab
3. Scroll down and locate the DegreeWorks link.

*A degree audit created in DegreeWorks is not an official notification of the completion of a degree or certificate requirements.

Exemptions to Completing Core Services

Exemption to Orientation

There is no exemption to the orientation for Las Positas College.

Exemption to Assessment

Students may be exempted from assessment with the submission of Advanced Placement (AP) English and/or mathematics test scores of 3 or better (a copy of the AP score report is required); and/or if the student completed a college-level English and/or mathematics course with a grade “C” or higher (official transcripts required), he/she may be exempted from the assessment. Other assessment exceptions may be available. See an academic counselor for more information.

Exemption to Student Educational Plan

There are no exemptions to the Student Educational Plan (SEP). Students are strongly encouraged to meet with an academic counselor to complete a SEP in order to map their courses for certificate or degree completion and/or transfer. Students who are exempt from any of the core services still need to meet with an academic counselor prior to priority registration. Exemption from core services does not guarantee priority registration.

REGISTRATION

Course Registration Methods

Students may register for classes using the following methods:

1. Via the Internet using CLASS-Web or The ZONE at www.laspositascollege.edu.
2. In-person at the Admissions and Records Office or at the Online Service Center located in Building 1600.

For detailed information on registration procedures refer to the current Class Schedule or visit the Admissions and Records Office website at www.laspositascollege.edu/admissions. Special registration assistance is available to students with disabilities through the Las Positas College Disability Resource Center.

Course Registration Information

New Students & Returning Students

Students who have never attended the Chabot-Las Positas Community College District will need to complete the following steps:

1. Apply for admission.
2. Apply for financial assistance.
3. Complete an online orientation.
4. Complete Guided Self-Placement
5. Complete your student educational plan.
6. Register for classes. Pay fees.

Continuing Students

Students who have attended the Chabot-Las Positas Community College District during at least one of the two most recent fall or spring semesters are considered continuing students. A course registration date based on the completion of core services of orientation, guided self-placement, and Student Educational Plan (SEP) will be e-mailed to the student's college issued e-mail account prior to the course registration period for the subsequent semester or term. Continuing students at Las Positas College will be assigned a course registration priority number. Visit the college website for information related to course registration priority criteria.

Class Schedule

Before the beginning of each semester or term, a Class Schedule is published indicating courses to be offered – the title of the course, the date and time, a brief description of the course, the name of the instructor, and the room assignment or location. Important instructions and information regarding admission and course registration are included in this publication. The Class Schedule is posted on the Las Positas College website and is available at the College Bookstore. During the Covid-19 Pandemic, please check the Las Positas College website for detailed and updated class schedule information.

Student Identification Card

All students are required to carry a valid photo identification card with a current validation sticker. This card is essential for use of the library, computer lab, bookstore, and other campus services. Identification cards may be obtained at the Online Service Center,

Building 1600. The student identification card is free to students.

Communication via Zonemail Account

All admitted students are given a student e-mail account through The ZONE web portal. All messages from Las Positas College will be sent to this account. Registration dates will be e-mailed to students via the Zonemail account. As students complete the core services of orientation, assessment, and student educational plan, students may be eligible for an earlier registration date than previously assigned. Students are encouraged to check their Zonemail regularly for important notices from Las Positas College.

Students may opt to forward their Zonemail to personal e-mail accounts. In addition to registration date notifications, students will also receive waitlist information, instructor e-mail messages, financial aid notifications and general college information.

Course Registration Procedures

Open Enrollment

In accordance with District policy, all classes are open to enrollment and participation by any person who meets the academic prerequisites of the class and who is otherwise eligible for admission to Las Positas College.

Enrollment Limits

Students are cautioned that some classes and programs may prove to be so popular or so limited by physical facilities and/or availability of qualified instructors that all students who apply cannot be accommodated.

Waitlist

Students may reserve a space on the waitlist for courses that are closed due to reaching their maximum enrollment limit. During registration, students will be automatically prompted to sign up for the waitlist if the class is closed.

Waitlist Notifications

All notifications for the waitlist will be e-mailed to the student's Zonemail account. If a seat becomes available for a course, the student at the top of the waitlist receives a notification e-mail to register for that class within 72 hours. If the student does not take action before the stated expiration date and time, the student loses their spot to the next student on the waitlist.

Priority Registration

Registration priority group and registration dates will be determined by the completion of the core services of orientation, assessment, and Student Educational Plan (SEP), the number of units completed and in progress at Chabot-Las Positas Community College District, and the maintenance of good academic and progress standing.

Students who have completed orientation, guided self-placement, and Student Education Plan, as well as students in good academic and progress standing who have not exceeded 100 units (not including units in basic English, English as a Second Language, or Mathematics) will have enrollment priority over students who do not

meet these criteria.

Students will register for courses according to an enrollment priority system as defined by Title 5 regulations and the Chabot-Las Positas Community College District. Priority Group information is included in the current class schedule and is posted on the college website at www.laspositascollege.edu.

Course Prerequisites

Students wanting to enroll in a course with a prerequisite must satisfactorily complete that prerequisite with a minimum grade of "C" or better, or the equivalent, before they are allowed to register. A course has a prerequisite to ensure that a student has the appropriate body of knowledge to successfully take the course. Courses with a co-requisite require that a student either has taken the corequisite before or is taking it at the same time as the courses.

Usually, a prerequisite is a course from a lower sequence of courses. For example: You may not enroll in Math 55 without first passing Math 110 with a "C" grade or better, or the equivalent. Usually, a co-requisite course is a lab or a course that provides supplemental instruction.

To see which courses have prerequisites and/or co-requisites refer to the individual course offerings in this Catalog or the Las Positas College website at www.laspositascollege.edu

Request for Course Substitution or Waiver of Program Requirement

Students who have had substantial prior experience related to the content of a college-level course, and who can present adequate evidence of their competence, may petition to have enrollment in that class waived without college credit for purposes of satisfying a program requirement. Courses considered for substitution must have been taken at an accredited institution. Petitions for course substitution or waiver of program requirements are available from the Counseling Department. Approval of the request by the Dean of Student Services is required prior to completing registration. Approval shall be based on the following criteria:

1. Adequate evidence of competence as supported by transcripts, statements of employers, military, or technical school certificates, etc.
2. Statement from an instructor that the course reflects the appropriate subject matter and fulfills the necessary program requirements, and signature of the Division Dean to validate the course. Students shall be advised that courses waived receive neither unit nor grade credit and that other courses may be needed to satisfy the total number of units required to complete the program of study.

Limitation on Unit Load

Eighteen (18) units per semester are considered to be a maximum load for a student. In order to take more than the maximum, an approval form must be obtained from an academic counselor. Las Positas College reserves the right to place unit limit restrictions due to fiscal constraints.

Course Conflict / Course Overlap

Students may be permitted to enroll in two classes that meet during

any part of the same hour with approval from the instructor, but only if a class overlaps with another class for 15 minutes or less. The student must request a Class Overlap form at the Admissions and Records Office. The form must be filled out by the instructor and signed by the appropriate Dean. The student must then return the completed form to the Admissions and Records Office no later than the day before the Census date.

Course Withdrawal Procedures

Withdrawing from Classes

Students are responsible for officially withdrawing from classes by the deadline date listed in the current Class Schedule. There is no automatic withdrawal process. Failure to follow the proper withdrawal procedures may result in a grade of “F”. Requests to withdraw from a class that are received by the “NGR” (No-Grade-of-Record) deadline will not appear on a student’s academic transcript. If a student withdraws from a course after the “NGR” deadline but on or before the “W” (withdrawal) deadline, a “W” will appear on their transcript. A “W” notation will not affect the student’s grade point average; however, excessive “W” notations may affect: (1) progress status; (2) status as a full-time student; (3) eligibility for financial aid and other benefits; (4) athletic eligibility; or (5) ability to repeat a course based on Title 5 regulations. Refer to the Class Schedule for important deadline dates.

Total Withdrawal

Students who intend to withdraw from the College must initiate withdrawal procedures for each class in which they are enrolled. Students are held accountable for clearing all obligations with the College including fees, library books, equipment, and lockers. The deadline for withdrawal from classes with a guaranteed symbol “W” is 75% of class meetings. Visit www.laspositascollege.edu for deadlines.

Instructor’s Withdrawal Option

The instructor may drop students who miss the first meeting of a course. In addition, an instructor may initiate a drop if the student is absent for a total of four (4) consecutive or six (6) cumulative instructional hours and/or two (2) consecutive weeks of instruction.

Instructor’s Withdrawal Option: Distance Education

The instructor may drop students who miss the first meeting of a course. The first meeting of online or hybrid Distance Education courses is the first day of the class as specified in the Class Schedule. For online courses, an instructor may drop students who do not log into their Canvas course and/or complete indicated activities by the third day of classes. Distance Education instructors may drop students if they have not submitted work and/or accessed the class for two consecutive weeks.

Military Withdrawal

If a student is called to active military duty any time during the semester or term, he/she is entitled to military withdrawal (MW). Service men and women must provide copies of their military orders to the Admissions and Records Office.

Excused Withdrawal

Excused Withdrawal occurs when a student is permitted to withdraw from a course(s) due to specific events beyond the control of the student affecting his or her ability to complete a course(s). These events and may include an accident or illness, job transfer outside the geographical region, an illness in the family where the student is the primary caregiver, when the student who is incarcerated in a California state prison or county jail is released from custody or involuntarily transferred before the end of the term, when the student is the subject of an immigration action, or other circumstances making course completion impractical. Upon consultation with faculty and verification of these conditions or reviewing documentation substantiating the condition, an excused withdrawal symbol may be assigned “EW.” The “EW” shall not be counted in progress probation and dismissal calculations.

Course Repetition

Repeating a Course

California Title 5 regulations, as amended, determine the conditions and processes related to repetition, enrollment, and apportionment limits at California Community Colleges. An “Enrollment” occurs when a student receives an evaluative or non-evaluative symbol on their official transcript (A, B, C, D, F, FW, P, NP, NC, CR OR W, I, IP, RD, MW, or EW). Only a military withdrawal (MW) and excused withdrawal (EW) does not count toward “enrollment.”

Unless a course is noted as “repeatable” on the official course outline, the student who receives a satisfactory grade (C, P, or higher) cannot repeat the course, unless an exemption applies per California Education Code Section 55042(b). If a student receives a substandard grade and/or withdraws from the course, the student is allowed to enroll in that course two more times for a total maximum of three enrollments per California Education Code Section 58161. California Title 5 regulations specify the circumstances under which a student may repeat a course.

Only three kinds of courses can indicate the course is repeatable on the course outline of record. Courses for:

- A. Intercollegiate Athletics;
- B. Intercollegiate competition; or
- C. Any course required as lower division preparation for a major at the University of California or California State University.

For consideration to repeat a course other than those listed above please see a counselor.

Limitations on Enrollment

Enrollment Limitations on Physical Education and Visual or Performing Arts Courses Effective Fall 2013, Title 5 Section 55041, students may not enroll more than four (4) times in active participatory courses that are related in areas of physical education or visual and performing arts. The limitation includes attempts with a substandard grade or a withdrawal (W). Courses that are related in content are identified as “families of courses” and are those courses with similar primary educational activities in which skill levels or variations are separated into distinct courses. These limitations apply

to certain courses, indicated in the course description, with the subject codes: ARTS, KIN, MUS, & THEA.

Procedures for Course Repetition

For all other requests to repeat a course where the student has been blocked due to exceeding the limit of three attempts, or another reason needs to submit a Petition to Repeat a Course to the Dean of Student Services or designee. This document is required for approval of repetitions beyond the limits noted in California Title 5 regulations. Documentation may be required depending on the reason for the Petition to Repeat a Course.

The following are the specific elements that may be addressed on the Petition to Repeat a Course:

- A. **Significant Lapse of Time:** A student may enroll for one additional attempt if he/she successfully completed the course and a significant lapse of time of more than 36 months have occurred since the student was awarded a grade in the course; and
 - a. There is an established recency prerequisite established by the course curriculum; or
 - b. There is an established recency requirement as established by a transfer institution.
- C. **Extenuating Circumstances:** A previous grade resulted from verified extenuating cases of accidents, illness, or other circumstances beyond the control of the student. Documentation is required that supports the extenuating circumstance.
- D. **Special Course Repetition:** A student with a disability repeating a special class for students with disabilities based on an individualized determination that such repetition is required as a disability-related accommodation for that student. The Disability Resource Center is required to verify the disability.
- E. **Extraordinary Conditions:** One of previous three enrollments noted on the student transcript resulted due to fire, flood, or other extraordinary conditions or if the District was unable to keep the college open for at least 175 days due to fire, flood, epidemic, emergency created by war, or other major safety hazards.
- F. **Legally Mandated Training:** Necessary to meet legally mandated training requirements as a condition of paid or volunteer employment. Significant Change in Industry or Licensure Standards and condition of paid or volunteer employment. Documentation is required from the agency or place of employment or prospective employer.
- G. **Military Withdrawal:** A student on active or reserve duty in the U.S. Military received orders compelling withdrawal. Upon verification of orders, enrollment does not count in maximum number of enrollment nor withdrawals.
- H. **Portion of Variable Unit Open Entry/Open Exit Credit Course:** Enrollment required to complete one time the entire curriculum of the variable unit course as described in the course outline of record. May not repeat any portion of the course, unless it is: (a) legally mandated; (b) a special class for students with disabilities; (c) justified by extenuating circumstances above; or (d) to alleviate substandard work recorded for that portion of

the variable unit course.

- I. **Cooperative Work Experience:** Enrollment in a cooperative work experience course.

When a student has repeated a course and earned a passing grade of A, B, C, D, or P, he/she may petition the Dean of Enrollment Services to count, for grade point calculation only, the most recently earned grade. The "Petition For Use of Most Recent Grade in a Repeated Class" is available at the Admissions and Records Office. Physical Education activity courses may not be repeated for a higher grade. Students are advised that both the original and subsequent grade will remain on their transcript and that when transferring to another institution, they may be held responsible for all units attempted.

Course Repetition: Special Circumstances

Students may not repeat a course in which they received a passing grade of A, B, or C. However, under specific conditions, the Dean of Student Services or designee may permit the repetition of courses for which a grade of "C" or better has been received.

These conditions are:

When the student's previous grade is, at least in part, the result of extenuating circumstances. Extenuating circumstances are verified cases of accident, illness, or other circumstances beyond the control of the student;

When a student should repeat a course because there has been a significant lapse of time. A student may enroll for one additional attempt if he/she successfully completed the course and a significant lapse of time of more than 36 months has occurred since the student was awarded a grade in the course; and

1. There is an established recency prerequisite established by the course curriculum; or
2. There is an established recency requirement as established by a transfer institution.

When it is necessary to meet a legally mandated training requirement as a condition of continued paid or volunteer employment.

California Education Code Section 55763 states that grades awarded for courses repeated under these specific conditions shall not be counted in calculating a student's grade point average.

Official College Transcripts

Las Positas College utilizes an online transcript ordering system. Las Positas College has retained Credentials, Inc. to accept transcript orders over the Internet. All official transcript orders must be placed through the website. To request your first two free transcripts, come in person to the Admissions and Records Office. Free transcripts are not offered online. Rush transcripts are never free.

Students may print unofficial transcripts from their CLASS-Web account.

Fees and Tuition

California Residents – Enrollment Fee

California residents, except those exempt by law, will be charged an

enrollment fee of \$46 per unit for classes at Las Positas College. Updates to fee information will be made available at www.laspositascollege.edu or by contacting the Admissions and Records Office.

Nonresident Tuition

Nonresidents of California are required to pay a tuition fee of \$315 per unit in addition to the \$46 enrollment fee and other college fees.

Exemption from Nonresident Tuition

For a list of exemptions please see the Residency information in the Admissions and Records section of this catalog.

International Student Tuition

Tuition for international students, nonimmigrant aliens and students on other types of visas is \$315 per unit in addition to the \$46 enrollment fee and other college fees. International students (F1 and M1 visas) are required to enroll and maintain a minimum of 12 units per semester.

Fees are Subject to Change

Enrollment fees are regulated by the California State Legislature. The College reserves the right to collect enrollment fee increases approved by the California State Legislature from all students including those who have paid fees prior to the implementation of new rates. All fees are subject to change. All attempts will be made to notify students of fee changes in advance.

Payment of Fees

Enrollment each term is conditional upon full payment of fees and tuition. If fees are not paid, classes will be dropped according to the "Drop for Non-Payment" deadline dates listed in the class schedule and College website.

Failure to Pay

College financial obligations may result in the withholding of grades, diplomas, verification, or course registration privileges from any student who has been provided with written notice that he/ she has failed to pay a financial obligation due to the College. Any item withheld shall be released when the student pays the financial obligation in full.

Collection Policy

Chabot-Las Positas Community College District may refer a student's outstanding debt to a collection agency and/or the State of California Franchise Tax Board (FTB) for collection. Once referred, additional fees may apply and credit rating may be affected. If debt is referred to the FTB, amount owed may be deducted from a student's state tax refund, California lottery prize, or unclaimed property.

Student Health Fee

Las Positas College provides health services for students through the Student Health and Wellness Center. All enrolled students are charged a mandatory Student Health Fee of \$21.00 per semester and \$18.00 in summer. Exemptions from paying this fee are granted as follows:

1. Students who depend exclusively upon prayer for healing in

accordance with the teachings of a bona fide religious sect, denomination, or religion.

2. Students who are attending Las Positas College under an approved apprenticeship training program.
3. Students taking classes held only on Saturday, at an off-campus site, or exclusively online.

To qualify for exemption, students must provide written documentation to the Dean of Enrollment Services.

Student Activity Fee

An optional fee of \$10.00 will be charged each semester. College clubs and organizations, the Student Center, and other student-related services are supported in part by this fee.

Student Representation Fee

A fee of \$2.00 will be assessed of all students each semester. This fee is used for purposes related to representing students' views with governmental bodies.

Parking Permit Fees

Parking at Las Positas College is by permit only. Parking regulations are enforced. A daily permit can be purchased from dispensers located in the parking lots. A full-term permit may be purchased online via CLASS-Web. The fees are:

Car Summer Term: \$20.00

Car Fall and Spring Semesters: \$45.00

Motorcycle: \$25.00

Daily Permit: \$3.00

A reduced term parking fee of \$30.00 is available for California College Promise Grant (formerly Board of Governors Fee Waiver) students.

Parking fees are subject to change.

Transportation Fee

With the passage of the Student Mobility Initiative in November 2017, all students are charged a mandatory transportation fee of \$9.00 (enrolled in six or more units), or \$8.00 (enrolled in less than six units) per semester. Transportation fees are not assessed during the summer term. As a result, students are able to ride Wheels buses throughout the semester without having to pay the ridership fare with a valid student identification card. Contact the Student Life Office for more information.

Print Fee Card

Use of a College computer lab requires the purchase of a Print Fee Card obtained from the Las Positas College Bookstore or vending machines in the library and Computer Lab, Room 803. Discounted print cards can be purchased in the Bookstore.

Payment Methods

Students have the option of paying fees by the following methods: (1) Credit card at the time of online registration; (2) check by mail – no cash; (3) Payment in-person to the Admissions & Records Office; or (4) NelNet Payment Plan.

Enrollment Fee Refund

Students may request a refund of enrollment fees as long as the student withdraws from classes during the first two weeks of class for a regular term class, or by the 10% point of the length of a short-term class. Refunds are not automatic. Requests for refunds must be filed by June 30 for the academic year just ended. Credit balances do not carry over from one academic year to the next.

A student who must withdraw for military purpose shall be refunded 100% fees paid, regardless of the date of withdrawal. In this case, requests for refunds made after the end of the academic year will be honored.

To apply for an enrollment fee refund, students must submit a Request for Refund form to the Admissions and Records Office. No refunds will be given to students who withdraw from classes after the No-Grade-of-Record (NGR) deadline. For refund deadlines, see the academic calendar.

A \$10.00 processing fee will be subtracted from each enrollment fee refund with the exception of classes canceled by the College. The student representation fee, student health fee, and student activity fee are not refundable. Refund checks will be sent by U.S. mail approximately six weeks after the NGR deadline.

Nonresident Tuition Refunds

Refunds of nonresident tuition by reason of program reductions or withdrawal from the College will be made in accordance with the schedule indicated below:

1. Withdrawal prior to the first day of instruction in a regular semester, term, or session: 90% Refund.
2. Withdrawal during the first week of instruction for a regular semester, term, or session: 75% Refund
3. Withdrawal after first week of instruction for a regular semester, term, or session: No Refund.

For further information regarding tuition charges and refunds, consult the current class schedule.

Tax Benefits for Education

Information about Tax Benefits for Education including the American Opportunity and Lifetime Learning Tax Credits and guidance for appropriate tax treatment of educational expenses, financial aid funds, and scholarships is available through the Internal Revenue Service (IRS) at www.irs.gov or the U.S. Department of Education at www.ed.gov.

Students will receive from the Chabot-Las Positas Community College District a 1098T form noting all fees billed and scholarships, fee waivers, and financial aid provided for the applicable tax year. This form may also be downloaded from the student's CLASS-Web or ZONE account.

FINANCIAL AID

Financial aid is provided to financially assist students to receive a college education who may otherwise be unable to afford this opportunity. Selection of students to receive financial aid is based strictly on an analysis of family financial need and is made without regard to age, sex, race, religion, national origin, or physical ability.

The Financial Aid Office administers financial aid in accordance with federal and state regulations and policies. A full range of financial aid programs is offered including fee waivers, Federal Pell Grants, Supplemental Educational Opportunity Grants, Cal Grants, Student Success Completion Grants, Federal Direct Student Loans (subsidized and unsubsidized), Federal Work Study, and scholarships.

Eligibility

To be eligible for most sources of financial aid, a student must be a U.S. citizen, permanent resident, or other eligible noncitizen; maintain satisfactory academic progress; register with Selective Service if required; have demonstrated financial need; must be making satisfactory progress toward a declared approved educational goal or major; have a high school diploma or General Education Diploma (GED); and must not be in default on a student loan nor owe a refund on any grant. Undocumented students who are designated by Admissions as AB540-eligible may qualify for California College Promise Grants and other sources of California state financial aid.

Priority File Completion Deadlines

Las Positas College has established the following financial aid Priority File Completion deadlines. Federal Pell Grant recipients must have applied for financial aid and followed up by (submitting all required supporting documentation) by the following deadlines in order to ensure receipt of a Federal Pell Grant the first week of classes, if eligible.

Fall Semester: July 1, 2021

Spring Semester: December 11, 2021

How to Apply for Financial Aid

To apply for all federal and state sources of financial aid, U.S. citizens and those in a legal immigration/permanent resident status must complete the Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov. Las Positas College Title IV Code is 030357. A new FAFSA must be completed each school year. Students may complete the FAFSA as early as October 1st of the previous school year. For example, the 2022-2023 FAFSA is available to complete beginning October 1, 2021 and should be completed no later than March 2, 2022 for maximum financial aid consideration. Processing time from application to payment requires several weeks.

Undocumented students with AB540 status through Admissions, please apply using the [California Dream Application](#). All students must submit all required documents posted on Class Web before payment can be authorized.

The federal government will e-mail or mail the student a Student Aid

Report which indicates the application results and will electronically transmit the results to the colleges indicated on the application. Once the College receives the student's FAFSA results, students who are enrolled and who qualify for a Federal Pell Grant will be e-mailed a Missing Documentation notice at their personal e-mail address indicating they must log into the Financial Aid tab of CLASS Web to review their missing requirements. Students must complete all requirements before financial aid can be authorized.

Once a student has completed their requirements and staff have had an opportunity to review, they will be e-mailed at their ZONE e-mail address a notice to download their official Award Letter from the Financial Aid tab of CLASS Web. Students who have not received notification from the Financial Aid Office are encouraged to follow-up to determine the status of their financial aid application.

How Financial Need is Determined

The FAFSA allows the government to determine the Expected Family Contribution (EFC) for each student. The EFC is based on an impartial analysis of the student's total available resources. Financial need is determined by comparing the College's cost of attendance, with the student's EFC. Grants, fee waivers, Federal Work Study, and student loans are distributed to students who indicate financial need through this process.

California Community College Promise Grant (CCPG Fee Waiver)

The California College Promise Grant (previously called the 'BOGFW') waives enrollment fees for qualified residents of California per semester or term. Students may receive a fee waiver for any number of units with no minimum. To qualify, students who have filed a FAFSA or DREAM Application and demonstrate at least \$1,104 in financial need (based on Cost of Attendance, less Expected Family Contribution) qualify. Students may also apply online at <http://www.laspositascollege.edu/financialaid/waiver.php>. The online fee waiver will not qualify students for any other type of financial aid to assist with educational expenses.

A student qualifying for a CCPG Fee Waiver must meet minimum academic and progress standards to retain eligibility for a fee waiver. Students who have not met the College's minimum academic and progress standards by demonstration of a minimum 50% overall unit completion rate and 2.0 cumulative grade point average (GPA) in the previous two primary terms of attendance will lose eligibility for a fee waiver. A student may regain eligibility for the CCPG on a term by term basis by 1) receiving an automatic appeal by demonstrating having earned greater than 50% of units attempted in the previous term with minimum 2.0 GPA; 2) filing a Loss of Fee Waiver Appeal if there are extenuating circumstances; or 3) when they next demonstrate they have met the required standards of cumulative 2.0 GPA and cumulative completion rate over 50%.

How Grants are Determined

Grants are "gift aid" from the federal or state government that do not require repayment. Eligibility is determined from the results of the FAFSA in accordance with federal and state guidelines and local financial aid policy.

Federal Pell Grants and SEOG Grants

Federal Pell Grant award amounts vary depending on the Expected

Family Contribution and the student's enrollment status. The dollar amount of Federal Pell Grants varies each school year and is subject to change. Supplemental Educational Opportunity Grants (SEOG) are awarded to full-time students with '0000' Expected Family Contribution, on a first-come, first-served basis based on the date all financial aid requirements were submitted.

Lifetime Eligibility Used for Federal Pell Grants: The federal government has limited lifetime receipt of Federal Pell Grants to the equivalent of six full-time school years. A student may never receive a Federal Pell Grant once six years has been reached. Students may monitor their own Federal Pell Grant eligibility used at <https://nslds.ed.gov/>

LPC AB 19 Promise Scholarship

The LPC Promise Scholarship is offered to students who have need but either don't qualify for a Pell grant, or qualify for a very small pell grant. All students who submit a FAFSA or DREAM application who meet the following criteria are eligible for the LPC AB19 Promise Scholarship.

Criteria:

1. Enroll in 9 or more units;
2. Receive a California Community College Promise Grant Fee Waiver;
3. Demonstrate an Expected Family Contribution of '3100' or higher;
4. Are not in a disqualified status due to poor progress or excessive units.

Cal Grants

Students should file their FAFSA prior to March 2nd in order to be considered for a Cal Grant for the following school year. Community college students who missed the March 2nd deadline may still apply by filing a FAFSA prior to September 2nd, and will be able to compete for remaining Cal Grants for community college students. In addition, each student must ensure that a verification of grade point average be sent to the California Student Aid Commission (CSAC). All students who have completed 16 units (not including English as a Second Language or remedial courses) as of the end of the previous semester at Las Positas College will have their grade point average automatically sent electronically to CSAC. All other students should contact the Financial Aid Office for assistance in determining which school or college is required to complete GPA verification. Students will be notified directly by the CSAC if they have been awarded a Cal Grant or can monitor their status at <https://mygrantinfo.csac.ca.gov/>. Students who receive a California Aid Report (CAR) form should submit it to the Financial Aid Office.

Students may receive a Cal Grant B for a maximum of 4 full-time years, or the equivalent of 8 full-time semesters. In order to complete a program of study within the four years, students must enroll into at least 15 units per semester, or 30 units per academic year. In order to earn a two year degree in two years, students must enroll into at least 15 units per semester, or 30 units per academic year.

Student Success Completion Grant

The Student Success Completion Grant (SSCG) is offered to Cal Grant recipients who are enrolled full-time. In addition to a Cal

Las Positas College

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Grant, students enrolled in 12 – 14.5 units are eligible for a \$649 SSCG per semester. Students enrolled in 15 or more units are eligible for \$2000 per semester. The SSCG is offered as an incentive to be full-time and complete a program in the shortest time possible.

California Dream Act

The California Dream Act allows AB540-eligible students to apply for and receive state-based financial aid including the CCPG fee waiver and state-based grants. Submission of the California Dream Act Application (CADAA) is required at <https://dream.csac.ca.gov/>.

AB540 students may qualify for the following through the Dream Application:

1. Cal Grants, SSCG Grants, Chafee Grants and LPC Promise Scholarships;
2. Assistance from EOPS, CARE, and CalWORKs; and
3. Privately-funded scholarships.

For more information, contact the Financial Aid Office.

AB 540 Students and Financial Aid

To receive a California College Promise Grant Fee Waiver (previously called the ‘BOGFW’), *documented* AB540 students who are a U.S. citizen or are in a legal immigration status with valid Social Security card must file a Free Application for Federal Student Aid (FAFSA) application at www.fafsa.ed.gov and will automatically qualify if they meet the financial need criteria. They may also qualify for other sources of federal financial aid.

Undocumented AB540 students may apply for a California College Promise Grant Fee Waiver (previously called the ‘BOGFW’) either by completing a California Dream Act Application (CADAA) at <https://dream.csac.ca.gov/> or by applying online <https://bog.openccapply.net/gateway/bog?cccMisCode=481>.

Undocumented AB540 students who complete a CADAA will be considered for a Promise Grant Fee Waiver, an Entitlement or Competitive Cal Grant, SSCG Grant, Chafee Grant, and an LPC Promise Scholarship.

To qualify for a Cal Grant, the undocumented AB540 applicant must submit a Cal Grant Grade Point Average Verification Form completed by their high school, unless they have earned at least 16 college-level units at Las Positas, in which case Las Positas will automatically transmit their GPA. Please contact the Financial Aid Office for applicable deadlines for GPA submission. Undocumented AB540 students who are former foster youths may also apply for a \$5000 Chafee Grant at www.chafee.csac.ca.gov.

Federal Workstudy

Students with unmet financial need who are enrolled in at least six units may apply for Federal Work Study to work on-campus, or off-campus in a community service position, as part of their financial aid award. For a listing of current Federal Work Study opportunities visit the Financial Aid Office or their website at <http://www.laspositascollege.edu/financialaid/fws.php>.

Federal Direct Student Loans (Subsidized and Unsubsidized)

Once financial need has been established, students enrolled at least

six units may apply for student loans. Students must maintain half-time enrollment in order to remain eligible for student loans. Those with unmet financial need may receive subsidized loans where the federal government pays interest while in school; those without financial need may receive unsubsidized loans where the student pays interest while in school.

Loans may be denied on a case-by-case basis by the Financial Aid Office due to reasons such as lack of progress toward completion of an academic objective, or excessive loan borrowing. Effective July 2013, per federal regulations, students who are new borrowers or students with no outstanding loan balance who borrow again, are limited to receiving a subsidized loan for a maximum of 150% of the length of their academic program, regardless of the amount borrowed. This is the equivalent of three years for a student who is pursuing an associate degree and/or transfer goal. Loan limits are federally established and may never exceed a student’s cost of attendance.

Student loan repayment begins six months after graduating or dropping below half-time enrollment. A mandatory entrance and exit counseling session is required for all loan borrowers so that terms of the promissory note, avoidance and consequences of student loan default, and student notification and responsibilities are very clearly understood. Contact the Financial Aid Office for further information about student loans.

Satisfactory Academic Progress Policy

In order to remain eligible for federal and state grants, federal workstudy and direct loans, a student recipient is required to maintain certain academic and progress standards in accordance to the Satisfactory Academic Progress (SAP) policy. This policy requires that students maintain a 2.0 minimum semester and cumulative grade point average (GPA) and maintain at least a 67% minimum semester and overall unit completion rate.

In addition, the maximum time-frame allowed for students to receive financial aid measured in attempted units is 150% of the student’s educational program length of a certificate, associate degree, or transfer. The maximum time-frame for certificate programs are substantially less, depending on the units required for completion as defined in the college catalog.

For example: If a student is pursuing a 30-unit certificate, a student may receive aid until they reach 45 attempted units, which is 150% of the program length. Earned units from previous colleges that may be accepted for credit are added to the total units attempted at Chabot College and Las Positas College to determine the combined total units toward maximum time frame.

In addition, consequences of not meeting the minimum requirements, disqualification, appeal procedures, and reinstatement of financial aid eligibility are addressed in this policy. This policy is different from the college’s general standards and is based on Federal Title IV regulations.

The link to the full policy is included with the financial aid award letter, and is posted on the Financial Aid Office website at <http://www.laspositascollege.edu/financialaid/sap.php>.

Complete Withdrawal from Classes or Earning No Credit After Receiving Aid

Federal law requires students to repay a portion of the funds received

if they completely withdraw before the 60% point of the term, as measured in calendar days, not school days. Note: if a student withdraws after he/she has earned 60% of his/her grant, the student does not owe any repayment. Students who earn no units in a term with a zero grade point average (GPA) are subject to the same repayment regulations unless the student can document that he/she remained in class past the 60% point of the term.

Students who are considering withdrawing from the College are highly encouraged to visit the Financial Aid Office prior to withdrawal to discuss the financial ramifications and to receive advice about their potential repayment.

Once the College notifies the withdrawn student of the Return to Title IV amount due, the student will have 45 calendar days to repay any amount due to the College, which then will be returned to the federal government. If not repaid within 45 days, a national "Hold" may be placed on the student's federal financial aid record. The student will lose eligibility for all federal student aid nationwide, until satisfactory repayment arrangements are made with the federal government or until the debt is repaid in full. At the end of the school year, the account may be referred to the federal government for collection.

The amount of institutional funds the College is required to pay the federal government on the student's behalf will be posted immediately on the student's account and a College "Hold" will be placed. The "Hold" will be lifted only upon full repayment, or upon reaching a repayment agreement with the Financial Aid Office. The "Hold" will be reinstated if the repayment terms of the contract are not upheld. Any portion of the institutional portion of repayment due directly to the College which is unpaid at the end of the school year may be referred to the state collection program. The amount of institutional funds the College is required to pay the federal government on the student's behalf will be posted immediately on the student's account and a College hold will be placed. The hold will be lifted only upon full repayment, or upon contracting a repayment agreement with the Financial Aid Office. The hold will be reinstated if the repayment terms of the contract are not upheld. Any portion of the institutional portion of repayment due directly to the College which is unpaid at the end of the school year may be referred to the state COTOP collection program ('Chancellor's Office Tax Offset Program'), which repays the debt (in addition to a 25% collection fee) by retaining funds from the student's state income tax refund.

Other Sources of Funds

Chafee Grant

Students who were former foster youth may apply for a \$5000/year Chafee Grant by completing a FAFSA or CADAA application, and by filing a Chafee Grant Application at chafee.csac.ca.gov.

Scholarships

Scholarships are funds generally made available by sources other than the government such as private businesses, organizations, clubs, colleges, etc. for students to help with the costs of their education. Generally, students must compete for scholarships based on specific criteria.

Las Positas Scholarship Program

The Las Positas College Scholarship Program is advertised at the beginning of each spring semester each year with an established deadline. Students may begin to apply for a variety of awards available only to LPC College students. Scholarship recipients are invited to attend the College's Annual Student Scholarship Ceremony held in May. Scholarships are awarded for the following academic year. Scholarships do not need to be repaid.

External Scholarship List

A list of current scholarships is posted at the Financial Aid Office and on the Financial Aid Office website, at <http://www.laspositascollege.edu/financialaid/scholarshipinfo.php>, and is updated frequently.

These are scholarships from local, statewide, and national organizations or foundations, which are not specifically for Las Positas College students, but which may be of particular interest to Las Positas College students. Deadlines vary greatly, so students should check the scholarship list frequently for updated information.

Other Scholarship Opportunities

Thousands of scholarship opportunities are available to students. The best source of scholarship information is through the Internet.

Students can search huge databases to seek scholarships for which they meet the qualifications, or take advantage of several free online scholarship searches, which do the searching for the student based on an application the student completes. Las Positas College recommends several excellent free searches on the Financial Aid Office website at

<http://www.laspositascollege.edu/financialaid/scholarships.php>

Financial Aid Warning

Students must use caution and discretion when visiting online websites that advertise free scholarships. Not all Internet scholarship websites are secure and may compromise identity resulting in identity theft. Students should never pay to apply for a legitimate scholarship.

Financial Aid Office

The Financial Aid Office is located on the second floor of the Student Services & Administration, Building 1600.

Telephone Number: (925) 424-1580

E-mail Address: lpcfinaid@laspositascollege.edu

Financial Aid Fraud and Abuse

The Financial Aid Office is responsible for awarding and ensuring that financial aid funds are disbursed to eligible students. In the event there are concerns about the accuracy or truthfulness about information or documents provided, the Financial Aid Office will not award or disburse financial aid. If it is determined that a student has attempted or received financial aid by providing false or misleading information, failure to formally withdraw when no longer attending classes, or otherwise manipulating eligibility criteria in an attempt to receive financial aid, all funds received must be repaid, and the student will be referred to the U.S. Department of Education, Office of Inspector General, for possible investigation and prosecution for fraud.

Directory of Resources for Financial Aid

Federal Student Information Center

For questions about federal student aid:
8:00 a.m. to 8:00 p.m. (Eastern Standard Time)
1 (800) 433-3243

U.S. Department of Education

Federal student aid information:
<https://studentaid.ed.gov/sa/>

FAFSA Online

To file a financial aid application online, or to review your FAFSA information or make changes visit: <https://studentaid.gov/h/apply-for-aid/fafsa>.

California Dream Act Application

For information about the California Dream Act Application, please contact the California Student Aid Commission (CSAC) by visiting <https://dream.csac.ca.gov/>.

California Student Aid Commission

For information about California state-based financial aid information, please contact the California Student Aid Commission (CSAC) by visiting <http://www.csac.ca.gov/>.

National Student Loan Data System

For information regarding a student's detailed loan history and Federal Pell Grant Lifetime Eligibility Used visit <https://nslds.ed.gov/npas/index.htm>.

For student loan default prevention, call 1 (800) 298-9490.
For Paid-in-Full Letters for defaulted borrowers, call 1 (800) 367-1589.

Selective Service Registration Information

All male students between the ages of 18 to 25 years old need to register with Selective Service in order to be considered for federal student aid. Students may check their registration status or register directly online at <https://www.sss.gov/Registration-Info>.

Internal Revenue Service

For copies of tax forms or for a free copy of "IRS Tax Transcript" contact the Internal Revenue Services by visiting their website at www.irs.gov.

VETERANS EDUCATIONAL BENEFITS

Veterans First Program

The mission of the Veterans First Program at Las Positas College is to facilitate the transition of servicemen and women from military to college life, and to assist them with educational, financial and other forms of support. The program's foundation is built on a basic principle of service.

Since the establishment of the Veterans First Program in 2007, Las Positas College has continued to expand its services to support the student success of veterans enrolling at the College. The primary program goal is to provide comprehensive services that recognize the unique experiences and needs of our veterans as they pursue their educational and career objectives. The Veterans First Program also provides services and programs for active duty members, reservists, and spouses and/or dependents of Veterans.

The Veterans First Program staff serve as liaisons to the United States Department of Veterans' Affairs and the state of California Veterans Affairs, and they will make every effort to provide speedy educational benefit payment with a minimal amount of difficulty.

Las Positas College is approved to offer instruction to service persons, reservists, and other eligible persons under Title 38, U.S. Code and Department of Veterans Affairs (VA) regulations. Eligibility for benefits under any of these programs is determined by the appropriate federal or state agency, and not by the College. In addition, we provide other resources and contacts, such as the ones listed below:

1. Comprehensive 2000 square foot Veterans Resource Center with a study room, computer room, lounge, reception area, and offices.
2. VA Educational benefits application, process, and certification.
3. Veterans Program Supervisor.
4. Veteran Emergency Book Loan / Text Book Borrowing Program.
5. Dedicated fulltime Veterans academic counselor and fulltime Veterans Specialist.
6. Priority Registration for Veterans, Active Duty, Reserves, and National Guard.
7. Scholarships for Veterans.
8. Veterans Affairs Work Study program.
9. Operation Gateway – Transition program for returning Veterans 2-day orientation geared to support Veterans' transition to success.
10. Health care services on campus provided by nationally recognized Palo Alto VA Health Care Representatives.
11. California State Fee Waiver program for spouse and dependents of Veterans.
12. On campus workshops and events – VA Educational Benefit Programs, Honoring Veterans Day on-campus, Honoring Women Veterans, Resume Writing for Veterans, Internships, etc.
13. Individualized and group academic subject support.
14. Financial Planning workshops and appointments.

We encourage Veterans attending Las Positas College to contact the

Veterans First Program in-person, by phone, or by e-mail with questions pertaining to their education, veteran affairs, educational benefits, or anything else for which they need information.

Principles of Excellence

Las Positas College is a member of White House Executive Order 13607

Principles of Excellence for Educational Institutions Serving Service Members, Veterans, Spouses, and Other Family Members. The Departments of Defense, Veterans Affairs, and Education shall establish Principles of Excellence (Principles) to apply to educational institutions receiving funding from Federal military and veterans educational benefits programs, including benefits programs provided by the Post-9/11 GI Bill and the Tuition Assistance Program. The Principles should ensure that these educational institutions provide meaningful information to service members, veterans, spouses, and other family members about the financial cost and quality of educational institutions to assist those prospective students in making choices about how to use their Federal educational benefits; prevent abusive and deceptive recruiting practices that target the recipients of Federal military and veterans educational benefits; and ensure that educational institutions provide high-quality academic and student support services to active-duty service members, reservists, members of the National Guard, veterans, and military families.

Veterans Access, Choice and Accountability Act (VACA)

The VACA Act (38 U.S.C. 3679(c)) requires the U.S. Department of Veterans Affairs (VA) to disapprove programs of education under the Montgomery GI Bill®-Active Duty (MGIB-AD) and Post-9/11 GI Bill® education benefit programs (Chapters 30 or 33, respectively, of Title 38, U.S. Code) at institutions of higher learning if the school charges qualifying veterans and dependents (“covered individuals”) tuition and fees in excess of the in-state rate for resident students for terms beginning after July 1, 2015. A “covered individual” is defined in the VACA Act as:

1. A Veteran who lives in the state in which the institution of higher learning is located (regardless of his/her formal state of residence) and enrolls in the school within three years of discharge from a period of active duty service of 90 days or more.
2. A spouse or child entitled to transferred education benefits who lives in the state in which the institution of higher learning is located (regardless of his/her formal state of residence) and enrolls in the school within 3 years of the transferor’s discharge from a period of active duty service of 90 days or more.
3. A spouse or child using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (provides Post-9/11 GI Bill® benefits to the children and surviving spouses of service members who died in the line of duty while on active duty) who lives in the state in which the institution of higher learning is located (regardless of his/her formal state of residence) and enrolls in the school within three years of the Service member’s death in the line of duty following a period of active duty service of 90 days or more.
4. After expiration of the three year period following discharge or

death as described in 38 U.S.C. 3679(c), a student who initially qualifies under the applicable requirements above will maintain “covered individual” status as long as he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters or terms) at the institution, even if they enroll in multiple programs and shall continue to be exempt from paying nonresident tuition and other fees.

Veterans Benefits Eligibility for Certificate Programs

Pursuant to 38 CFR 21.7020(b)(22), a vocational objective is one that leads to an occupation. It may include educational objectives essential to prepare for the chosen occupation. When a program consists of a series of courses not leading to an educational objective, these courses must be directed toward attainment of a designated professional or vocational objective. To be in compliance with Federal regulations noted in 38 CFR 21.4252 (b)(4), the College will be required to provide data to support the student’s gainful employment upon completion of their certificate educational objective. Without this data, the certificate may not be deemed as eligible for VA educational benefits. Please contact the Veterans First Program for additional information on which certificate programs are eligible for VA educational benefits.

Certification Process

New students should first enroll in the College and register into courses, following the regular matriculation process for all students. Once enrolled, students may apply for VA benefits by completing a VA Application for Educational Benefits, which is available from the Veterans Office and an Enrollment Certification Request form and they must submit a DD214 if the veteran served on active duty. Students must request enrollment certification each semester. Students must notify the VA Office if their enrollment, major, or address changes. The VA Office will make necessary certifications of enrollment, changes in enrollment, and progress.

Evaluation of Prior Education and Training

By the third semester, all students receiving veterans educational benefits are required to: (1) have submitted to the Veterans Office or the Admissions and Records Office, official academic transcripts from each school previously attended; (2) have submitted a DD214 if they were on active duty; and (3) complete a “Veterans Evaluation” with a College counselor, which establishes a personalized education plan based on prior education and training and the student’s current academic objective. The institution will conduct an evaluation of all previous education and training and will grant appropriate credit, shorten the veteran’s or eligible person’s duration of the intended course proportionately, and will notify the VA Regional Center and the student accordingly, in compliance with Title 38 regulations.

Veteran Evaluations can be approved for multiple degrees on one Evaluation of Course Requirements, but cannot be approved for more than two majors on a single Veteran Evaluation. Dual majors pursued under an academic policy that defines the dual major’s requirements can be certified if both majors are approved. Only courses required to complete the dual major can be certified. During VA site visits, or during compliance surveys, if VA reviews a case for a student who is pursuing dual majors, the Veterans Office must ensure the student is not enrolled in courses outside either major and that the courses are

approved. A student may want to pursue a dual objective. For example, a student may want to concurrently pursue two different degrees or pursue a degree and a certificate. A program of education may lead to more than one educational, professional, or vocational objective if all objectives pursued are generally recognized as being reasonably related to a single career field. The objectives do not necessarily have to be on the same professional or technical level.

Course Restrictions for Certification

Courses will NOT be certified for benefits after the second semester until the Veterans Evaluation is complete. Only courses that meet requirements or their prerequisites for the major and degree objective as indicated on the evaluation will be certified for payment. If the academic objective is changed, the student must complete a new evaluation accordingly. The College can only certify for Certificate, AA, or AS majors listed in the college catalog, or for transfer majors for which official articulation has been completed between Las Positas College and the intended transfer college.

Veterans will be permitted to enroll into work experience courses under the Parallel Plan as practical training for their major.

There are individual academic programs and courses listed in the Catalog that may not meet VA approval for educational benefits. Contact the College Veterans Office to determine if your intended program is approved for benefits.

Note: Programs previously approved are subject to change as determined by the U.S. Department of Veterans Affairs.

Students may pursue multiple degrees such as associates, certificates, and transfer degrees to accredited institutions at the same time.

Waiver of Wellness with DD214 w/ Honorable Discharge

Student Veterans with a copy of their DD214 w/ Honorable Discharge in the Veterans Office will have the waiver of area of Wellness for Associates in Arts (AA) Degree or area of Kinesiology for Associates in Science (AS) Degree and be granted 3 elective units towards their degree plan.

Withdrawal Processes for Members of the Military

A student who is a member of an active or reserve United States military service and who receives orders compelling a withdrawal from courses shall be permitted to withdraw upon verification of such orders. A withdrawal symbol may be assigned which may be a "W" or a "MW." Military withdrawal shall not be counted in progress probation, dismissal calculations, or in calculating the permitted number of withdrawals. Military member who must stop attending Las Positas College due to deployment and/or reassigned to a different station of duty/post, will be allowed for readmission to Las Positas College or Chabot College without any penalty. The military member will need to provide documentation supporting the reason for leaving due to deployment and/or reassigned to a different military station of duty/post.

Dependents of Veterans

A student who is a dependent of a veteran with a service connected disability or who died of a service-connected cause may be eligible to

receive a waiver of tuition and registration fees through the California Dependents of Veterans College Fee Waiver Program.

Application forms and additional information may be obtained by contacting the local county veterans service officer, listed in the telephone directory under county government, or by calling (916) 653-2573. Approved authorization forms may be submitted directly to the Financial Aid Office for a fee waiver.

Eligibility for Programs

Eligibility for VA educational benefits can be extended to veterans, reservists, and children of service-connected deceased or disabled veterans under the following programs:

- Forever GI Bill® – Harry W. Colmery Veterans Educational Assistance Act
- The Montgomery GI Bill® (Chapter 30)
- U.S. Department of Veterans Affairs Veteran Readiness and Employment (VR&E) (Chapter 31)
- Post-9/11 GI Bill® (Chapter 33)
- Dependents' GI Bill® (Chapter 35)
- Reservists Montgomery GI Bill® (Chapter 1606) For More Information on the eligible Veterans Affairs Educational Benefits, please visit <https://benefits.va.gov/gibill/>

Tuition Assistance for Military

Military Tuition Assistance is a benefit paid to eligible members of the Army, Navy, Marines, Air Force, and Coast Guard. Congress has given each service the ability to pay up to 100% for the tuition expenses of its members.

Each service has its own criteria for eligibility, obligated service, application process' and restrictions. This money is usually paid directly to the institution by the individual services.

TA is not a loan; it should be viewed as money earned just like base pay.

Educational Planning

Since many universities and colleges do not accept credits that other schools have granted for military service, students who desire to transfer military credit should consult the policy of the university or college to which they intend to transfer.

Students are encouraged to make an appointment with an academic counselor and to visit the Transfer Center to learn more about the transfer of credit.

Minimum Grade Point Average Requirements

The Veterans Administration (VA) requires students on educational benefits maintain satisfactory progress. If the student on VA benefits falls below 2.0 grade point average (GPA) over two semesters, this is reported to the VA as unsatisfactory progress and benefits are suspended. To reinstate benefits, students must complete one semester with a 2.0 or higher GPA. Las Positas College is required by law to have and to enforce standards of progress and conduct in order for

their programs to be approved for VA benefits.

General Information for Veterans

The Las Positas College Veterans Information brochure and the college catalog provides information on basic eligibility requirements, student responsibilities, evaluation of prior credit, declaring academic objectives, variable-unit courses, withdrawal from classes, and repetition of courses.

Priority Registration for Veterans

At Las Positas College in order to be assigned priority registration, veterans, reservists, and active duty members must complete the college's orientation, assessment tests, student educational plan, and provide a copy of their DD-214, NOBE, or military orders to the Veterans First Program.

DD-214 Credit

Qualified Veterans may receive three (3) units of elective credit towards the associate degree. Contact the Counseling Department or Veterans Office for more information for more information.

Directory of Resources for Veterans

Las Positas College Veterans First Program

Telephone: (925) 424-1571

Website: <http://www.laspositascollege.edu/veterans/>

California Department of Veteran Services

1227 O Street, Sacramento, CA 95814

Telephone: (800) 952-5626

TDD: (800) 324-5966

Outside California: (800) 221-8998

Website: <https://www.calvet.ca.gov/>

Additional Veterans Resources Educational Benefit Inquiries

Telephone: (888) 442-4551

Debt Management Center

Telephone: (800) 827-0648

U.S. Department of Veterans Affairs

California Palo Alto Health Care System

3801 Miranda Avenue

Building 5, Room C-384

Palo Alto, CA 94304-1290

Telephone: (650) 493-5000 ext. 66975

GI Bill®

Website: www.gibill.va.gov/

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at <http://www.benefits.va.gov/gibill>

MyVRC Smartphone App

Free app for LPC STUDENT VETERANS, ACTIVE DUTY, RESERVISTS/GUARD, AND SPOUSES/DEPENDENTS OF VETERANS. Download it Free Today. No membership fees. No pop-up ads. Download on the App Store or Get it on Google Play. Keyword: myvrc

Oakland Veterans Center

1504 Franklin Street, Suite 200

Oakland, CA 94612

Telephone: (510) 763-3904 or (877) 927-8387

Fax: (510) 763-5631

PTSD and Combat Veterans

Website:

https://www.ptsd.va.gov/understand/common/common_veterans.asp

Survivors Benefits

Website: www.vba.va.gov/survivors/index.htm

Student Veterans of America

Website: www.studentveterans.org/

Swords to Plowshares

Website: <https://www.swords-to-plowshares.org/>

Transition Assistance Program

Website: <https://www.dol.gov/vets/programs/tap.htm>

Veterans Affairs Suicide Prevention

Telephone: (800) 273-8255 (Press 1 for Veterans)

Website: www.suicidepreventionlifeline.org

Veterans Health Care

Telephone: (877) 222-8387

Vocational Rehabilitation Employment

Telephone: (800) 827-1000 (Press 1, then Press 0)

Women Veterans Information

<https://www.calvet.ca.gov/calvet-programs/women-veterans>

ACADEMIC SERVICES SUPPORT

Campus Resources

Library (Learning Resources Center, LRC)

The Library at Las Positas College is located inside the Learning Resources Center (Building 2000). The Library's mission is to provide

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the information services and resources required to meet the needs of the College's educational programs. The Library facilitates and improves learning by supporting and expanding the instructional capabilities of the College and by providing students with the opportunity to develop information competency skills for lifelong learning. The Library offers reference and instructional services to meet the needs of students, faculty, and staff. The Library encompasses all types of print, non-print, and online resources including a wide variety of books, audiovisual materials, magazines and newspapers, and full-text periodical databases. The Library also provides access to course textbooks placed on reserve by faculty. The Library maintains an extensive website that provides access to the Chabot-Las Positas College Libraries online catalog, online databases, and research and instructional guides. Library facilities include computer labs, study carrels, and group study rooms. Registered students, faculty, and staff with current College ID cards may check out books and materials from both the Las Positas College and Chabot College Libraries.

Tutoring Center

The Tutoring Center, located in the Multidisciplinary Building (Room 2401), is dedicated to providing the support and assistance students need to be successful in their course work and to improve their study skills. Scheduled and drop-in tutoring in specific content areas, study skills assistance, online tutoring, reading and writing help, and a quiet place to study are provided free of charge. Student tutors are recommended by faculty members for their positions and receive course credit for tutor training. Students are invited to request tutoring, seek positions as tutors, or use the Tutoring Center facilities for studying at any time during the spring and fall semesters. For more information, study help, instructions to sign-up for online tutoring, and current hours go to the Tutoring Center website at: www.laspositascollege.edu/tutorialcenter/

Reading and Writing (RAW) Center

The RAW Center offers free one-on-one tutoring for reading and writing assignments for any class in which reading and writing is required. English and ESL instructor-tutors will also assist with transfer application and scholarship statements. The RAW Center also offers online reading and writing support. For more information, including hours of operation and online lessons, please visit the RAW Center website at: <http://www.laspositascollege.edu/raw/index.php>

The Smart Shop Series

The Smart Shop workshop series is a series of workshops designed to help you succeed at Las Positas college. The free workshops cover academics, transfer, and career topics, and they are designed to refresh English and STEM skills, explore majors, explore careers, prepare for transfer, and more.

Computer Center

The Computer Center, located in room 803, is a quiet open computer lab equipped with PC and Apple computers, printers, and helpful staff. Computers are available for currently enrolled students on a "first come, first served" basis. Printing from campus computers requires a print fee card, which can be purchased from the Bookstore or the card dispensers in the Library and Computer Center.

The Computer Center Staff are also available to support students

through online platforms when special and unforeseen circumstances arise. Virtual support would be provided during normal business hours.

For more information <http://www.laspositascollege.edu/computercenter/>.

Integrated Learning Center (ILC)

The Integrated Learning Center in Building 600 houses the Math Learning Center and the attached labs for English as Second Language courses.

Mathematics Learning Center

The Math Learning Center provides recommended support to students in math through credit or tuition-free (noncredit) concurrent support courses aligned with their math courses. These support courses are designed with innovative strategies to offer students math and learning support while taking a math class. For more information on concurrent support, visit <http://www.laspositascollege.edu/mathjam>. The math department provides drop-in tutoring for students enrolled in Las Positas College mathematics classes through enrollment in the noncredit NMAT202C course. LPC Mathematics Faculty staff the Math Learning Center. During online learning, all support classes are offered online at specified times. Please see <http://www.laspositascollege.edu/ilc/> for more detailed information.

English as a Second Language

ESL students enrolled in Reading and Writing courses will complete a weekly one hour lab assignment in the Integrated Learning Center. Students will complete lab assignments with a focus on grammar, vocabulary, reading and writing skills, in groups and/or independently with the support of an ESL instructor. Students can also access other learning support materials located in the lab.

Special Academic Programs

Adult Education Program

Adult Education classes are financially supported by the state of California and are offered tuition-free as a noncredit option. The Adult Education Program serves individuals 18 or older seeking to acquire basic educational goals, English as a second language (ESL) instruction, adults with disabilities, and career education or short term vocational training associated with in-demand industry. Adult Education Program classes are designed to provide students with a high-quality learning experience that connects students to resources throughout the Tri Valley and Alameda County.

Honors Transfer Program

The Honors Transfer Program is designed to provide highly motivated students with academic opportunities that encourage independent thinking and creative learning. Members of the Honors Transfer Program (HTP) have the option to enhance their coursework by creating honors contracts with their professors. Courses completed with honors contracts receive an "Honors Course"

designation on the student's transcript. Students who complete the program and graduate from Las Positas receive an honors medal at graduation and an honors seal affixed to their diploma. Those students who graduate as honors scholars have access to transfer agreements with a number of universities including UCLA, UCI, University of San Francisco, and several others. For eligibility requirements and further information, please visit the Honors Transfer Program Website at: www.laspositascollege.edu/honors

Independent Study

Independent study courses are open to all students. Independent study must be contracted through an instructor for research, field experience, or skill development. Students are encouraged to check with the Counseling Department concerning transferability of these courses to four year institutions.

Work-Based Learning Program

Las Positas College provides clear academic pathways to improve the workforce and economy of our community. To support this mission, we have established a Work-Based Learning Program—a collaboration with local business and industry to develop career and work experience opportunities, internships and mentoring programs, and community work and study placements directly related to a vocational field of training. This partnership benefits both employers and students, ensuring a talented pipeline of skilled workers from our college to the workplace and reinforcing and expanding students' classroom learning. As part of the Work-Based Learning Program, Las Positas College offers courses as well as an internship and job board. Students can choose from two courses that link the classroom with the workplace and focus on 21st century work skills: General Work Experience, for students with any type of employment or volunteer work, and Occupational Work Experience/Internship, for students who work in positions related to their major field of study. The Las Positas College Internship and Job Board connects our students and alumni with area employers. Employers can post positions and search résumés. Students and alumni can search positions, post their résumés, and sign up to get notifications about our college job and internship fairs, newly posted positions, and career tips. This free service is linked on our homepage and can be accessed at <http://laspositascollege.edu/internship-job-board/>. For more information about our Work-Based Learning Program, please visit <http://www.laspositascollege.edu/careercenter/work-based.php> or email WBL@laspositascollege.edu. For information about our Work Experience courses, please visit <http://www.laspositascollege.edu/workexperience/>.

Apprenticeship Programs

Apprenticeship programs offered in California provide women and men the opportunity to attend college credit courses while getting on-the-job training and earning a training wage in their chosen field. These courses are usually provided by the apprenticeship's program sponsor at an off-campus training facility. Courses are taught by journey-level tradespeople who are also qualified college-level instructors. Las Positas College is presently the local education agency (LEA) for the advanced shop ironworkers apprenticeship program providing necessary advanced skills and knowledge to set up an apprentice up for success as a shop ironworker. For eligibility requirements and further information, go to the Advanced Shop Ironworkers Apprenticeship Certificate of Achievement website at:

<http://laspositascollege.edu/degrees/advancedshopironworkersapprenticeship-certificateofachievement.php>

Community Education

Community Education classes are designed to provide personal development, cultural enrichment, and job training to people of all ages. These classes are fee-based and not for college credit. At present, Community Education offers classes in fitness and health, human development, home and garden, computer and workplace skills, business, arts and letters, personal and small business finance, and college preparatory skills. The program also offers contracted training for small businesses (catered to meet business needs) in workplace skill-building. Some classes offered through Community Education do provide Continuing Education Units (CEUs) for professions such as Nursing. For information regarding Community Education classes at Las Positas College or to suggest a Community Education class, call (925) 424-1467 or visit <http://www.laspositascollege.edu/communityed/index.php>.

Contract Education

Las Positas College contract education classes are offered through the District Office through contracts for educational services with public or private agencies, corporations, associations, or individuals. An active outreach program in contract education is conducted by the District to help business, industrial and public organizations develop training programs tailored to meet their needs. Examples include Business Communications, Supervision, CPR and First Aid, English as a Second Language, Commercial Law, Word Processing and Computer Skills, Pre-Retirement Planning, Radiation Technology, Technical Writing, and certificate or degree programs in technical and general education. Courses can be offered "on-site" (at the employer facility) or on campus. Organizations or persons desiring information on how the District can provide educational training programs to meet specific training needs can view the contract education website at tdsolutions.org or telephone us at (925) 249-9372.

High School/ROP/Adult School Articulation

High School/ROP/Adult School articulation provides a legal process to align the course curriculum from these schools to community college and university courses. Articulation is the alignment and comparability of coursework between two levels of education, such as high school and community college. It is established through discipline specific faculty-to-faculty collaboration. Las Positas College (LPC) has many articulated courses. These articulation agreements create sequences of progressive, non-duplicated education leading to technical skill proficiency, a credential, a certificate, and/or a degree in a wide range of fields and careers. Students benefit from developing high-demand career skills that support their success in the workforce and give them a competitive edge. Rigorous Career Pathway programs also provide college prep students with opportunities to apply academic content in real-world applications. Students successfully completing the articulated courses may be eligible for advanced placement in the LPC program, and, in most cases, opportunities to earn college credit. To learn which classes are currently under articulation agreements visit: <http://laspositascollege.edu/articulation/courses.php>

Career Education

Las Positas College (LPC) Career Education (CE) programs focus on providing students with the technical and soft skills necessary to help them be successful in the workplace. CE programs prepare students for current or emerging jobs. Hands-on training and relevant and engaging classes train students for a wide range of high-wage, high-skill, high-demand careers, and further educational opportunities. Now more than ever, CE programs are needed to boost the strength of their workforce, global competitiveness, and the economic health of the nation. Day, evening, and online classes are offered year-round to allow students to plan a flexible schedule to fit their busy lifestyles. Visit <http://lpcazure.laspositascollege.edu/careereducation/programs.php> to learn more about LPC's Career Education programs.

OSHA Training Institute Education Center

The OSHA Training Institute Education Center (OTIEC) at Chabot-Las Positas Community College District has been authorized by OSHA since 2008 to deliver occupational safety and health training on their behalf. Courses offered include OSHA safety standards, Outreach Trainer authorization and California (Cal/OSHA) specific courses. Our primary goal is to fulfill OSHA's mission of preventing work-related injuries, illnesses and fatalities by offering the finest quality educational programs and courses. For additional information visit www.osha4you.com or call (866) 936-6742.

Distance Education

Las Positas College typically offers Distance Education classes in two formats: online, which is conducted over the Internet; and hybrid, which is a combination of online and on-campus instruction. In addition to class sessions, materials, and exercises being accessible online, Distance Education classes make full use of interactive technologies, such as email, discussion boards, blogs, chat, and even group assignments so students can stay connected with their instructor and fellow students.

Because Distance Education classes offer access to accommodate the varied lifestyles and learning styles of students, Las Positas College offers an array of General Education classes in this format. The classes are designed to be equivalent and comparable to their counterpart on-campus courses in quality, learning outcomes, special requirements, course fees, and credit.

Moreover, students can take Distance Education classes to earn many, if not all, of the units necessary to obtain certain degrees and certificates. Current class offerings can be found in the Class Schedule and on the CLASS-Web website. Students can enroll in these classes through the regular college registration process. Las Positas College strives to offer equivalent services to online students as it does to on-campus students.

Links for the above websites can be accessed from the College's home page at www.laspositascollege.edu. For more information, including support services, orientations, success tips, and privacy information, see the Las Positas College Online Learning website (<http://www.laspositascollege.edu/onlinelearning/>), or call (925) 424-1142.

COUNSELING SERVICES

Counseling services are central to student success at Las Positas College. Counselors provide academic, career, and personal counseling services. They orient new students and teach Psychology-Counseling courses in Career Development, Human Services, Student Success and the College Experience, Study Skills, and Transfer Planning. Each student meets with a counselor to select courses based upon the student's skills and academic interest and develops a Student Educational Plan (SEP) to meet academic, career, and personal goals. Course placements are established, and articulation agreements with four-year colleges and universities are used to create accurate SEPs for transfer. Counselors remain available to students throughout their college career.

Academic Counseling

Counselors assist students with selection of courses based upon the student's assessed skills and interest, their selected career, associate degree, and/or the institution to which they plan to transfer. Students are encouraged to meet with a counselor in their first semester to develop a Student Educational Plan (SEP) to assure their path meets their individual goals.

Career Counseling

Counselors are available to assist students in self-assessment and career selection processes. Students will be encouraged to examine their skills, interests, and aspirations and to research career possibilities that offer opportunities for utilizing their unique skills and personal qualities.

Personal Counseling

Counselors hold graduate degrees in counseling-psychology or related fields and provide individual and group counseling. Short-term confidential personal counseling is available to help students discuss ways to remove personal barriers to their academic progress. Referral to community resources is available for those requiring long-term personal counseling.

Online Counseling

Online Counseling services are available for all students. Online counseling allows for Web-based interaction with a counselor and the opportunity to review student needs and plan individual educational goals.

Counseling E-mail

Students and prospective students can contact the Counseling Department to receive answers electronically from counseling representatives at: lpc-counseling@laspositascollege.edu.

Assessment

The course placement process is a vital part of new student

enrollment. A Guided Self-Placement process is utilized to recommend appropriate courses in English and mathematics. Students may also be assessed in English as a Second Language (ESL), chemistry, Spanish, and French to ensure appropriate course selection in each of these areas. Counselors utilize all available information to help students select courses appropriate to their skills and academic goal.

Multiple Measures

The mission of Las Positas College is to provide quality educational opportunities to all students who seek to increase their knowledge and to improve their skills by enrolling in general education, career and transfer education, continuing education and basic skills courses. While it is recognized that the final responsibility for the selection of proper courses rests with the student, the College offers a variety of programs and services prior to enrollment to help advise students about how to match their individual educational needs with specific college resources. Any single assessment instrument will be inadequate for successfully advising students as to appropriate course enrollment. Multiple measures assessment must, therefore, be the process for all recommended course enrollments, including advice given by counselors, instructors, and other personnel.

Multiple measures assessment is broad in scope. No list of factors that may be included in a multiple measures assessment is exhaustive; however, some general categories and examples can be outlined. Student factors may include cognitive skills, which may be inferred from test scores, grade point averages (GPA) and transcripts; emotional well-being, motivational level and educational goals which may be elicited in an interview or self-reported; social factors, such as life experience, family responsibilities and social support for educational effort; economic factors, such as job demands and financial resources; and physical factors. Factors associated with the instructor, the institution and the community can often interact with student factors to further indicate the potential for success in a given course.

New Student Orientation and Program Planning Session

Students who are new to Las Positas College are encouraged to participate in an online orientation prior to registering for classes. Students without previous college experience are further encouraged to attend an in-person planning session, to learn vital information for making informed decisions about their college career and academic choices. Group planning sessions are available by appointment, during which counselors provide interpretation of student placement results, and assist with selection of first semester courses. Once enrolled and attending classes at Las Positas College, individual counseling appointments may be scheduled for long-term educational planning.

Career and Transfer Services

Career Services

Career planning is an integral part of the educational process. Current students may utilize the Career and Transfer Center to access a variety of career assessment tools. Staff and counselors are available to assist students with researching majors, occupations, and degree

paths. Another opportunity for students to explore possible majors and careers is to enroll in a Psychology-Counseling (PCN) 10 course titled, Career and Educational Planning. The course provides career assessments, in-depth career exploration, and guidance in educational planning for transfer degree paths. Students will have access to a variety of employment and career related information. Students may also request an appointment with a counselor for career exploration guidance and educational planning.

Transfer Services

The Career & Transfer Center coordinates an extensive variety of services. Transfer services include: individual appointments with 4-year university representatives, transfer workshops, transfer day events, and transfer celebrations. Individual counseling appointments and transfer workshops assist in the transition to institutions of higher learning. Students may also receive assistance with university applications, personal statements, and the Transfer Admissions Guarantee (TAG). The center has a library of catalogs, degree information, and 4-year university information for students to utilize. Information on all services can be found at: www.laspositascollege.edu/transfer

Employment Services

The Career & Transfer Center assist students with their employment needs. Services offered include: employment exploration and referrals, internships, and community partnerships opportunities. The center's employment software and working partnership with the Tri-Valley Career Center are available resources to students. Assistance with resume building, cover letters, job hunting, and interviewing tips are also offered to students. Information regarding employment services can be found at: www.laspositascollege.edu/careercenter

STUDENT PROGRAMS AND SERVICES

Disabled Student Programs and Services (DSPS)

Disabled Student Programs and Services (DSPS) is committed to excellence and accessibility for all students. DSPS offers support services for students with various learning, and psychological disabilities. Support services include priority registration, academic, career, and disability-related counseling, new student orientation, interpreters, note takers, and test-taking facilitation. Students with verifiable disabilities are eligible for accommodations related to those disabilities. Credentialed, certified, or licensed professionals must verify the disability. DSPS is located in Student Services & Administration, Building 1600 on the first floor in suite 1615. Students may make appointments by calling (925) 424-1510 or by emailing lpc-dsps@laspositascollege.edu

High Tech Center

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DSPS has a dedicated technology center in Building 1600 for students with disabilities. PC and Mac computers are available along with other adaptive hardware and software to assist students in the areas of reading, writing, spelling, and computation skills.

Web Accessibility

Las Positas College is committed to providing webpages that meet Section 508 guidelines for web accessibility. Toward that end, each of the top-level pages on the website and all other pages managed by the College's Webmaster have been or are being modified to meet accessibility guidelines. In addition, DSPS and the Web team are educating faculty and staff on accessibility concerns including information about Section 508 compliance for webpage content. Students who experience difficulties accessing a webpage should contact DSPS (925) 424-1524.

State Supported Programs

Extended Opportunity Programs and Services

<http://www.laspositascollege.edu/EOPS/>

Extended Opportunity Programs and Services (EOPS) provides support services for low-income and educationally disadvantaged students to help them succeed in college level coursework. A variety of programs, services, and activities have been directed to the identification, recruitment, retention, and transition of EOPS students to the four-year college/university and/or career placement. Services can include: financial grants and book service; academic, career, and personal counseling; new student orientation and readiness programs; special assistance in tutoring and peer advising; transfer counseling; field trips and cultural enrichment activities; and referral services. Program eligibility is based on educational disadvantage and demonstrated financial need. All students must be full-time students and complete a required application.

Cooperative Agencies Resources for Education

<http://www.laspositascollege.edu/EOPS/care.php>

The Cooperative Agencies Resources for Education (CARE) program provides a variety of services and activities to assist single parent students in achieving educational goals. They may receive additional services such as special counseling, support groups, child care, stipends, book service, transportation expense reimbursements, automotive repair and maintenance service, job search assistance, tutoring, and peer advising. To be eligible for CARE, students must be a current Extended Opportunity Programs and Services (EOPS) student, be attending college full-time, be receiving or have a child who is receiving California Work Opportunity and Responsibility to Kids (CalWORKs) or Temporary Assistance for Needy Families (TANF), and have a child who is under eighteen years of age.

California Work Opportunity and Responsibility to Kids

The California Work Opportunity and Responsibility to Kids (CalWORKs) program at Las Positas College serves CalWORKs students who are attending school as part of their Welfare-to-Work plan with the county. In order to be eligible for the CalWORKs program, students must be currently receiving CalWORKs cash aid for themselves. The CalWORKs program offers a variety of

supportive services that are intended to help students define and make progress in their educational and career goals in order to find meaningful employment and successfully transition into the workforce. Some of the supportive services that we offer are personal, academic, and career counseling; coordination and advocacy with the Department of Social Services; assistance with Welfare-to-Work plans; transitional child-care funding; transportation resources; job development and work-study employment; and special workshops, classes and support groups to aid in student success. CalWORKs students are also eligible for priority registration. For additional information, visit the CalWORKs Office in the Student Services & Administration, Building 1600, Room 1668.

LEARNING COMMUNITIES

Las Positas College learning communities focus on helping students reach their educational goals. Each learning community combines a series of core classes that students take as a cohort with fellow students. Students who join a learning community focus on success and receive some of the following support services. Each learning community program may vary in the specific support services provided. Visit the learning community websites for more information.

Learning community support services include:

1. Dedicated counselors
2. Access to mentors
3. College tours
4. Guidance for transferring to four-year universities
5. Career exploration and professional development workshops
6. Education planning
7. Tutoring
8. Cohort classes
9. Supportive staff, faculty, and classmates.

Engineering Technology

The Engineering Technology program at Las Positas College is a two-year degree pathway resulting in an Associate of Science (A.S.) in Engineering Technology. The learning community is designed as a strong local employment pathway for students who want a hands-on engineering career with a focus on mechanical technology in an applied setting. Students receive foundational training in engineering, mathematics, physics, and welding, and develop skills in manufacturing and fabrication, problem solving, and critical thinking. An available accelerated mathematics sequence advances students from intermediate algebra to calculus-readiness in one year. The learning community also delivers integrated career-readiness and support services. Eligible students typically participate in a summer internship featuring valuable worksite activities, tours, hands-on training, job shadowing opportunities at a local engineering company or a national laboratory. Graduates of the program may be employed as mechanical technicians, mechanical technologists, or in other applied engineering fields.

Students interested in the Engineering Technology program should visit <http://laspositascollege.edu/engrtech/index.php> for more

information. Veterans should reach out to the Veterans First Program at (925) 424-1570 or <http://www.laspositascollege.edu/veterans/> to find out about available benefits and services.

Puente Project

The Puente Project is a national award-winning program which provides support for students to achieve their personal, academic, and career goals. Its mission is to increase the number of educationally disadvantaged students who enroll in four-year colleges and universities, earn college degrees, and return to the community as mentors and leaders to future generations.

Students enrolled in the year-long Puente Project cohort work closely with their counselor focusing on transition to college and the transfer process. The English course sequence focuses on college-level composition and multicultural literature and experiences. In addition, students are matched with a professionally and academically successful mentor from the community. The Puente Project is open to all Las Positas College students. For more information, visit: www.laspositascollege.edu/puente.

Umoja

Umoja is a statewide success-focused learning community that provides a dedicated support system to help students reach their academic and life goals. The Las Positas College Umoja program is intentional and deliberate with improving the success rates of Black students. Students engage in intellectual conversations regarding social and emotional impacts of racism, discrimination, and anti-black symbolism. Students are encouraged to be leaders and advocate for equity, diversity, inclusion and anti-racism across campus, work environments, and communities. Umoja students have a dedicated academic counselor and accessible professors who are passionate about the success of Black students. Umoja students take classes together to form bonds, cultivate leadership, build cultural affirmation, and work toward success. Umoja courses include: College Success, University and Transfer Planning, English Composition, Library Skills, Math and Literature. All courses focus on the African and African American experiences, voices, writers, speakers, and related topics. Umoja students are invited to attend college tours and culturally-enriching conferences and events. For more information, visit: www.laspositascollege.edu/umoja.

CAMPUS RESOURCES

Public Transportation

Transportation to and from Las Positas College is an individual responsibility. Wheels is a service of the Livermore Amador Valley Transit Authority (LAVTA) and provides public transportation to and from the College. The Wheels bus connects to the Livermore Transit Center and to Bay Area Rapid Transit (BART). For more information contact Wheels at (925) 455-7500 or at www.wheelsbus.com.

College Bookstore

All students are required to furnish their own textbooks and school

supplies that are available for sale at the College Bookstore or online via www.efollett.com. Typical costs for books and school supplies average \$400 to \$600 per semester for students pursuing a full-time program. Students financially unable to buy their own textbooks and school supplies should consult the Financial Aid Office or other student support programs. College Bookstore hours are posted outside the College Bookstore. College Bookstore information may be found the College website at www.laspositascollege.edu.

Student Health and Wellness Center

The Las Positas College Student Health and Wellness Center has a team of medical, behavioral health, and wellness providers to provide high quality healthcare services that promotes physical and psychological well-being, treats minor health issues, and strives to empower students to have a healthy and successful academic experience. Students who have a health condition that may require sudden emergency care are asked to consult with the Nurse Practitioner in the Student Health and Wellness Center at the beginning of each term and also alert each of their instructors.

The Student Health & Wellness Center team provides:

1. High quality and accessible medical, behavioral health, and wellness services.
2. Referrals for chronic and complex medical and psychological services.
3. Preventive and public health services for the campus community.
4. Campus wide collaboration promoting health and student success.

For more information, contact the Student Health and Wellness Center in Building 1700 or call (925) 424-1830.

Student Health and Accident Insurance

For complimentary assistance with a variety of health plans including Covered California, students can go to www.keenandirect.com or call (844) 580-6857. The staff at Keenan Direct assist students in determining eligibility for subsidies or Medi-Cal.

First Aid

First aid stations are located in the Office of Campus Security and Security and the Student Health and Wellness Center located in Building 1700.

Medical Emergencies On Campus

For emergency assistance, dial (925) 424-1699 or extension 1699 from campus office phones. All cases of personal injury or medical emergency should be reported to the Office of Campus Safety and Security. The Student Health and Wellness Center can help students with minor injuries and illnesses.

Housing

Las Positas College does not provide dormitories or other types of College-sponsored housing.

Campus Safety and Security

Access To Buildings

During business hours, the College and most campus buildings are open from 7:00 am to 11:00 pm. During non-business hours, access to all College facilities is by key or card key, if issued, or by admittance via the assistance of the Office of Campus Safety and Security. In the case of periods of extended closing, the College will admit only those with prior approval to all facilities. All students and employees are issued identification cards, which they may be asked to produce if there is any question about their authorization to be on College property.

Campus Safety

The Chabot-Las Positas Community College District is committed to a safe and secure work and learning environment. The Office of Campus Safety & Security prepares and annually updates a report of all occurrences reported to the Office of Campus Safety & Security and arrests for crimes that are committed on-campus and that involve violence, hate violence, theft or destruction of property, sexual misconduct including sexual harassment, illegal drugs, alcohol intoxication, and all occurrences of noncriminal acts of hate violence reported to campus authorities. Additional information and corresponding reports are found on the College website.

College Property

No College property may be removed from the campus without expressed permission from an administrator. Unauthorized removal of College property from the campus is a violation of the law and may be prosecuted by the College.

Crime Prevention

Crime prevention material is distributed by the Office of Campus Safety and Security to the campus community. The Office of Campus Safety and Security makes inspections of facilities to ensure physical security design, presents programs to reduce risk from criminal acts, reviews plans and new construction additions to facilities to insure against design defects that could contribute to criminal acts, makes preventative patrols of grounds, make necessary arrests and detentions, and interacts with other law enforcement and investigative agencies to accomplish this task.

Drug Free Environment and Prevention Program

Las Positas College strives to maintain a drug-free and alcohol-free environment. College district policy states it prohibits, “the sale or knowing possession of dangerous drugs, restricted dangerous drugs, alcoholic beverages or narcotics as those terms are used in California statutes except when lawfully prescribed or permitted”. Federal law also prohibits the use, sale, or possession of marijuana. Students may be arrested, suspended, expelled, placed on probation or given a lesser sanction for good cause and in accordance with College procedures consistent with due process for violations of the drug and alcohol policy. Students and employees will be informed of the health risks associated with the use of illicit drugs and the abuse of alcohol, and will be advised of the availability of drug and alcohol counseling, treatment, and rehabilitation.

Emergency Call Boxes

Emergency call boxes are located in various places on campus, including several parking lots, on the campus perimeter road, and

near the Student Services & Administration Building. In the event of an emergency, push the button on the emergency call box and the on-duty campus security officer is notified of your location. The emergency call box has a feature which allows the caller to speak directly to the campus safety officer. Outside the entrance to the Office of Campus Safety and Security there is an emergency auto-dialer. In the case of an emergency and the office is locked, please push the button on the auto-dialer. The auto-dialer will contact the on-duty campus safety officer.

Emergency Notification

The Las Positas College Office of Campus Safety and Security is committed to ensuring that our campus community receives timely, accurate, and useful information in the event of a significant emergency or dangerous situation on campus or in the local area that poses an immediate threat to the health and safety of campus community members. Las Positas College uses the emergency notification system “Everbridge” which is an emergency notification service that proactively contacts students, staff, and faculty at their District assigned e-mail accounts. Everbridge can be used to send emergency messages within minutes of the occurrence of an incident. Messages are sent by multiple methods to contact information listed in the campus directory as well as confidential contact information registered by users. The system can send simultaneous messages to the college community by e-mail message and SMS text. Campus community members can contact the Office of Campus Safety and Security to update or change their contact information and are encouraged to list “SMS Text” as their primary contact method.

Emergency Procedures

Las Positas College Office of Campus Safety and Security personnel are available twenty-four (24) hours a day, seven (7) days per week. Persons are encouraged to report any criminal activity or any other emergency by calling the Office of Campus Safety and Security by calling (925) 424-1699 or visiting the Office of Campus Safety and Security located in Building 1700. If the Office of Campus Safety and Security is closed, the on-duty campus safety officer can be contacted by telephone in the following ways:

- On-campus telephone, dial extension 1690 (non-emergency)
- On-campus telephone, dial extension 1699 (emergency)
- On-campus pay telephone, dial *16 – No coin is needed
- Off-campus telephone, dial (925) 424-1000 until 9:00 p.m.

Lost And Found

The Office of Campus Safety & Security takes great pride in returning lost and found property to their rightful owners. All property found on campus should be brought to the Office of Campus Safety and Security located in Building 1700 to be recorded. All found property is held and disposed of in the manner prescribed by law.

Parking

Parking on-campus is a privilege extended by the Chabot-Las Positas Community College District Board of Trustees to the faculty, staff, students, and guests. To ensure safety and the efficient use of available parking spaces, parking rules and regulations adopted by the Board of Trustees are enforced all year. There are no grace periods or

exceptions to the parking rules and regulations without the expressed direction of the College President or designee. Drivers using College parking lots shall comply with the rules and regulations adopted by the Board of Trustees pursuant to California Vehicle Code, Section 21113. Failure to comply with the parking rules and regulations may result in disciplinary action, the issuance of a parking citation, loss of parking privileges, and/or cause the vehicle to be towed at the owner's expense. Parking at Las Positas College is by permit only.

Parking Permits

Parking at Las Positas College is by permit only. Parking regulations are enforced from the first day of instruction each term. Full-term parking permits may be purchased online via CLASS-Web. Daily parking permits may be purchased from parking permit dispensers located in the parking lots. There is no grace period for permits. All students and guests must purchase a parking permit for each day. Take notice that certain parking spaces are reserved for College employees and College vehicles. These parking spaces are clearly marked in front of the parking stall. Vehicles parked in a staff or other reserved space without the proper permit will be cited. All vehicles shall be parked clearly within designated parking stalls between the white lines and head-in only. Do not back in or drive through.

Visitor Parking

A 30-minute visitor parking zone is provided at the entrance to the College. Long-term visitor parking is available in each student lot when a daily parking permit is purchased from a ticket dispenser and displayed on the vehicle's dashboard. Visitors with a DMV disabled placard may park in the Visitor parking lot without purchasing a daily parking permit from the ticket dispensers in the stalls, pursuant to the Vehicle Code.

Pets On Campus

No animals and/or pets of any kind or description are allowed within the boundaries of the college. This restriction also applies to animals and/or pets confined to any vehicle parked within the college boundaries. This policy does not apply to the use of a guide dog, signal dog, or service dog specially trained for assisting a person with a disability.

Safety Escort Services

The Office of Campus Safety and Security offers escorts to the campus community to and from the parking lots. Call to arrange to have an escort accompany you from your classroom or office to your vehicle by dialing (925) 424-1690 or from any College telephone by dialing extension 1690, by dialing *16 from any campus pay telephone, or by activating a nearby emergency call box.

Sex Offender Registry

California law requires sex offenders who are employed, volunteer, are a resident of, or enrolled as a student at an institution of higher education, to register with the Livermore Police Department located at 1110 South Livermore Avenue Livermore, CA 94550. To search the database of registered sex offenders in California by name or geography, check the Megan's Law website at <http://www.meganslaw.ca.gov/> or information concerning registered sex offenders can be obtained from the Livermore Police Department.

Smoking On Campus

Smoking is allowed only within designated smoking areas and is prohibited within 20 feet of a main exit, entrance, or operable window of any campus or District building. Smoking is prohibited inside any indoor area of any campus or District building and inside any District-owned or leased vehicles. Smoking is prohibited in any enclosed place of employment on campus, including lobbies, lounges, waiting areas, stairwells, and restrooms that are a structural part of any building that is a place of employment. This also applies to electronic cigarettes or other imitation smoking devices.

Statement For Non-Sworn Officers

The Chabot-Las Positas Community College District employs security officers with training specific to campus security.

Statement Of Enforcement Authority

The campus safety officer meets the legal definition of a security officer because of appointment pursuant to the California Education Code, Section 70902. The campus safety officer is not a peace officer, but Sections 626 and 627 of the California Penal Code provide special authority for school security officers to make an arrest if the perpetrator fails to leave the College grounds after being directed to do so. In addition to this authority, campus safety officers can arrest for any misdemeanor or felony committed within their presence, but must use Section 837 of the California Penal Code – arrest by a private person – to accomplish the arrest. Campus safety officers derive additional authority from Section 21113(a) of the California Vehicle Code. This section covers parking on school property. Officers can issue citations for violations of District Parking Regulations using this section.

Timely Warning

In an effort to provide timely notice to the campus community in the event of a Clery Act crime that may pose a serious or on-going threat to members of the community, Las Positas College Office of Campus Safety and Security will issue out a "Timely Warning". The Office of Campus Safety and Security will generally issue these warnings for the following crimes: criminal homicide; sexual assaults; robbery; aggravated assault; arson; burglary; and hate crimes. The Office of Campus Safety and Security will post these warnings through a variety of ways including, but not limited to, e-mail messages, posters or bulletins, and class discussions. The purpose of these warnings is to notify the campus community of the incident and to provide information that may enable community members to protect themselves from similar incidents. The Office of Campus Safety and Security will issue these warnings whenever the following criteria are met:

1. A crime is committed;
2. The perpetrator has not been apprehended; and
3. There is a substantial and on-going risk to the physical safety of other members of the campus community because of this crime.

Such crimes include, but are not limited to: Clery Act crimes that are reported to any campus security authority or the local police; or when the college determines that the incident represents an on-going threat to the campus community. Additionally, the Office of Campus Safety and Security may, in some circumstances, issue warnings when there is a pattern of crimes against persons or property. The Campus Safety

Supervisor or designee will generally make the determination, in consultation with the President, if a warning is required. However, in emergency situations, any Campus Safety Officer may authorize a Clery Timely Warning. For incidents involving off-campus crimes, the college may issue a Crime Advisory if the crime occurred in a location used and frequented by the college population. Clery Timely Warnings are sent out to the campus community via the Everbridge system. If you have an official Las Positas College e-mail address, you are automatically enrolled in the crime alert notification system. These messages are a very effective way to share important information with the campus community about safety.

Title IX

Title IX of the Educational Amendments of 1972 is an all-encompassing federal law that prohibits discrimination based on the gender of students and employees of educational institutions which receive federal financial assistance. Under Title IX, discrimination on the basis of sex can include sexual harassment, rape, and sexual assault. A college or university that receives federal financial assistance may be held legally responsible when it knows about and ignores sexual harassment or assault in its programs or activities. Colleges and universities may be held responsible in court whether the harassment is committed by a College employee or student. Title IX related concerns and complaints of possible violations of Title IX should be reported to the Vice President of Student Services or designee.

Weapons Policy

Firearms, knives, explosives or other dangerous chemicals or objects, including, but not limited to, any facsimile firearm, knife or explosive, are prohibited on College property and all College-sponsored functions at all times. All weapons are prohibited at Las Positas College. Except for sworn law enforcement officials, it is a felony to bring or possess any firearm on any California school campus per California Penal Code, Section 626.9. It is also a felony to possess any air gun, including pellet and BB guns that utilizes air, CO₂, or spring pressure to propel a metallic projectile; knives with a blade length of over 2.5 inches, dirks, daggers, and ice picks are also illegal per California Penal Code, Section 626.10. Any person may be arrested, expelled, suspended, placed on probation or given a lesser sanction for good cause and in accordance with College procedures consistent with due process for violations of the weapons policy.

Crime Statistics/ Clery Act Disclosure/ Annual Security Report (ASR)

The Office of Campus Safety and Security prepares a report to comply with the Jeanne Clery Disclosure of Campus Security Policy and Crime Statistics Act. Crime statistics may be found online at <http://www.laspositascollege.edu/safety/statistics.php>. The full text of this report may be found online at <http://www.laspositascollege.edu/safety/documents/clery.pdf>. The report is prepared in cooperation with the local law enforcement agencies. Campus crime, arrest, and referral statistics include those reported to the Office of Campus Safety and Security, designated campus officials including, but not limited to, administrators, faculty, classified professionals, advisors to students and student organizations, athletic coaches, and local law enforcement agencies.

STUDENT LIFE

Las Positas College is committed to providing programs and services that foster student participation and engagement in college governance, activities, organizations, and cultural events. The College recognizes the important role of students as active and meaningful participants in the shared governance decision-making process of the institution. Important and essential responsibilities of the college include comprehensive leadership development and co-curricular programs for students to strengthen their knowledge, expand their understanding of governance issues, increase their preparedness, and apply their skills. The Student Life Office is committed to improving student success and engagement by ensuring access, equity, and inclusion for all students.

Las Positas College Student Government

The Las Positas College Student Government (LPCSG) is the campus student government, providing opportunities for students to participate in the governance of the College by serving on numerous College and District committees. In addition, LPCSG members advocate on local, state and federal levels for student interests.

The LPCSG is organized in two bodies – the Executive Council which is composed of elected officers and the Student Senate which is composed of members who have been appointed by the members of the LPCSG. Elections of LPCSG officers are held each spring. Students can become senators at any time during the academic year. All LPCSG officers and senators must be registered in at least 5 units at the College and are required to maintain a minimum cumulative 2.0 grade point average (GPA).

LPCSG supports services for students including, the textbook loaner program, the Market (free monthly food distribution), social and cultural events, and many other services that vary as opportunities develop.

LPCSG is located in Student Services & Administration, Building 1600, First Floor. The office telephone number is (925) 424-1490. For more information, visit: <http://laspositascollege.edu/student-gov/>.

Student Clubs and Inter-Club Council

Students have the opportunity to form clubs relating to common social, recreational, or other interests. Each club must have an advisor who is college faculty or staff member, recruited and nominated by the club members.

The Inter-Club Council (ICC) is the representative body that coordinates club activities and funds. The ICC promotes communication and cooperation among clubs on-campus. The ICC is composed of a voting representative from each club, representing cultural, educational, honorary, philanthropic, and social interests. For more information, visit: <http://laspositascollege.edu/studentlife/>.

Honor Societies

There are four recognized Honor Societies on-campus. Alpha Gamma Sigma (AGS) is a statewide Honor Society open to any student who has completed at least 12 units at Las Positas College with at least a 3.0 grade point average (GPA). Beta Beta Beta is a national honor

society that is open to students who are Biological Science Majors who have completed at least three semester courses in Biological Science, of which at least one is not an introductory course, with an average grade of “B” in those courses, have a “B” average in all courses and be in good academic standing. Mu Alpha Theta is a national honor society that is open to students with an interest in math who have at least a 3.0 GPA in math courses from College Algebra/ Precalculus or above. Psi Beta is a national honor society for Psychology students who have completed at least 12 units at Las Positas College, passed at least one 3-unit Psychology course with a grade of “B” or better, and have a 3.0 GPA. Membership in the honor societies will be noted on students’ transcripts when they graduate or transfer from Las Positas College. For more information, contact the Student Life Office at (925) 424-1490.

Social Activities

Numerous social activities are offered at Las Positas College each semester through LPCSG. Students interested in working on social activities and entertainment should contact the Student Life Office at (925) 424-1490.

The Express Newspaper

The award-winning Express college newspaper is produced by students in the Express College Newspaper class and is published several times per semester, both in print and online. Students practice and refine journalism skills, including recognizing newsworthy events, writing stories, taking photographs, and designing pages for the newspaper. Students are introduced to concepts related to journalism, photojournalism, business management, graphic arts, design, social media, leadership, and editing. To join the team, sign up for Express College Newspaper in the Journalism and Media Studies Department. The Express Newspaper is available on campus and online at <http://lpcexpressnews.com>.

Naked Magazine

Naked Magazine, Las Positas College’s award-winning student magazine, launched in fall 2008. The magazine production class allows students to create a journalistic-style student magazine in a lab setting. Emphasis is placed on developing content, writing in-depth magazine articles, producing photographs and other visual elements, correlating copy and visuals, laying out pages in the production process, copy editing, promoting advertising and sponsorships, and exploring ethical issues. This class is offered in the fall semester. To join the magazine, sign up for Magazine Editing and Production in the Journalism and Media Studies Department. Naked Magazine is available on campus and online at www.nakedlpcmagazine.com.

Havik, the Journal of Arts and Literature

Havik, Las Positas College’s journal of arts and literature, is published each spring by students in cross-listed English and Journalism and Media Studies classes. “Havik” is Dutch for hawk, which is the college’s mascot as well as a play on the word havoc. The class allows students to experience the creation of a journal, from the solicitation of submissions to the selection of works to the design and creation of the book. The final step is a publications and awards ceremony, featuring contributors and the newly published journal. During the production process, students work with poetry, artwork, photography, short fiction, creative nonfiction, and academic papers. To join the journal staff, sign up for the Journal of Arts and Writing in either the

English or Journalism and Media Studies Department. Havik is available for sale at the campus bookstore and in Room 2409.

Speech and Debate Team

The Las Positas College Speech Team, otherwise known as Forensics, is a competitive activity which provides students with an intensive focus on enhancing research, writing and performance skills. Forensics students compete at tournaments against other colleges and universities from across the nation in the areas of Public Speaking, Oral Interpretation, and Debate. In addition to traveling state-wide, nationally and internationally to competitions, this renowned program also hosts tournaments and Speech Performance nights.

Performing Arts

A wide range of opportunities are available to Las Positas College students in the performing arts. The Theater Arts Department offers students training and experience through classes in Technical Theater, Acting, Musical Theater, and History and Theory. Performance opportunities include four productions per year, which may include an outdoor summer musical, student directing projects, or a Theater for Young Audiences production. Theater Arts offers AA and AA-T degrees, Certificates of Achievement in Technical Theater, Acting, and Musical Theater, as well as the Actors Conservatory at Las Positas College which features multiple embedded certificates.

The Music Department offers several certificate pathways in Commercial Music, including Certificates of Achievement in Scoring for Film and Multimedia, Music Business, Teaching Beginning Piano, Teaching Intermediate Piano, Piano Teaching Fundamentals and Music Technology Fundamentals. Students can also earn a Certificate of Achievement in Jazz Studies, an Associate of Arts (AA) degree in Music, and an Associate in Arts Degree for Transfer (AA-T) in Music. Students have multiple opportunities to perform, compose, and participate in a variety of events — both on campus and in the community – throughout the semester. Performance ensembles include Chamber and Concert Choirs, Vocal Jazz Ensembles, Instrumental Jazz Ensemble, Jazz Combos, and Chamber Orchestra.

The Dance Department offers courses in technique, composition and performance. Students have the opportunity to work with professional guest artists through the Choreography for the Stage course. A range of performance opportunities are made available through formal and informal productions. Performance venues include unique environments throughout campus and three state of the art theater spaces.

The Communication Studies department offers classes in Oral Interpretation of Literature and Activities In Forensics, also known as the Speech and Debate Team. Students have multiple opportunities to perform interpretive and original material in classroom environments, at intercollegiate competitive tournaments and on LPC’s main stage theater.

Intercollegiate Athletics

Las Positas College offers student-athlete participation on nine intercollegiate athletic teams, serving approximately 175 student athletes each year. We provide intercollegiate teams for women’s volleyball, water polo, soccer, basketball, and swim/diver. For men, we provide intercollegiate teams in water polo, soccer, basketball, and swim/diver. Athletics at Las Positas College, as with all California community colleges, is governed by the general regulations of the

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California Community College Athletic Association (CCCCAA), as well as specific regulations of the Coast Conference in which Las Positas College holds membership. Students who participate in athletics must meet the requirements of the California Community College Athletic Association (CCCCAA).

Academic standing, enrollment within an intercollegiate class, completed and approved eligibility forms, and a physical exam are required to compete in the intercollegiate sport.

Per CCAA Article 1.5.3 the Athletic Director and the College President monitor the integrity of the intercollegiate athletic program regarding rules, compliance, and eligibility. Students will work with our counseling staff towards a degree/certificate or transfer. All incoming student-athletes must meet with a counselor and complete a Student Educational Plan (SEP). Periodic reports on attendance and class progress may be requested from student-athletes' instructors. These reports are reviewed by the respective coaches, the dean, and when indicated, the counselor.

Las Positas College is a member of the Coast Conference. Both the men's and women's athletic teams engage in competitive conference and non-conference competition against both Northern and Southern California teams. Students interested in more information regarding athletics, please visit the College's athletics website at: <http://athletics.laspositascollege.edu>.

Student Rights & Responsibilities

Student Grievance Policy

The Chabot-Las Positas Community College District encourages all students to pursue academic studies and other College-sponsored activities. In pursuit of these goals, the student should be free of unfair or improper action from any member of the academic community.

The Chabot-Las Positas Community College District accords every student the right of protection. Students, however, must also be aware that they are responsible for complying with all College regulations and for meeting the appropriate College requirements. Student Grievance procedures have been developed by Las Positas College to provide students with a prompt and equitable means of seeking an appropriate remedy for any alleged violation of rights and to insure that each student is fully accorded due process. Both the Student Grievance Procedures and the Student Conduct and Due Process Procedures outline the process for seeking resolution, and develop the procedure for filing and processing complaints, including timelines and decision-making authority. The general provisions and specific procedures related to this policy are available from the Office of the Vice President of Student Services, the Office of the Dean of Student Services, or the Student Life Office. You may also find this information online at: www.laspositascollege.edu.

Student Grievance Procedures

Student Grievance procedures have been developed to provide students with a prompt and equitable means of seeking an appropriate remedy for any alleged violation of rights and to ensure that each student is fully accorded due process. The Student Grievance procedures outline the process for seeking resolution, and develop the procedure for filing and processing complaints, including timelines

and decision-making authority. Additional information pertaining to Student Grievances is found online on the college website.

A student may file a grievance when he/she feels that there has been a violation of College or District policies and procedures. A grievance may be initiated against another student, an instructor, an administrator, or a member of the classified staff, pursuant to the procedures and grounds specified in Board Policy 5530 and Administrative Procedure 5530.

A student grievance may be submitted for the following:

1. Course grades, to the extent permitted by Education Code Section 76224(a), which provides: "When grades are given for any course of instruction taught in a community college District, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student's grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetency, shall be final." "Mistake" may include, but is not limited to errors made by an instructor in calculating a student's grade and clerical errors.
2. Violation of policies and procedures by the college to the extent they have a direct and significant impact on the student, such as on the student's exercise of rights of free expression. Under this section, a grievance may be initiated by a student alleging the violation of college/district policies and procedures against an instructor, an administrator or a member of the classified staff.

Student Grievances Do Not Apply To

1. Student disciplinary actions, which are covered under separate Board Policies and Administrative Procedures.
2. Sex discrimination, sexual harassment, or illegal discrimination which are covered under separate Board Policies and Administrative Procedures.
3. Financial aid actions, which are covered under separate Board Policies and Administrative Procedures.
4. Police citations (i.e., "tickets"); complaints about citations must be directed to the County Courthouse in the same way as any traffic violation.

Informal Resolution

Each student who has a grievance shall make a reasonable effort to resolve the matter on an informal basis prior to requesting a grievance hearing, and shall attempt to solve the problem with the person with whom the student has the grievance, that person's immediate supervisor, or the local college administration. The Vice President of Academic Services or designee shall serve as Grievance Officer on grade disputes and grievances arising out of instructional services. The Vice President of Student Services or designee shall serve as Grievance Officer for grievances arising outside of instructional services. The Grievance Officer and the student may also seek the assistance of the Las Positas College Student Government (LPCSG) in attempting to resolve a grievance informally. Informal meetings and discussion between persons directly involved in a grievance are essential at the outset of a dispute and should be encouraged at all stages. An equitable solution should be sought before persons directly involved in the case have stated official or public positions that might tend to polarize the dispute and render a solution more difficult. At

no time shall any of the persons directly or indirectly involved in the case use the fact of such informal discussion, the fact that a grievance has been filed, or the character of the informal discussion for the purpose of strengthening the case for or against persons directly involved in the dispute or for any purpose other than the settlement of the grievance.

Any student who believes he/she has a grievance shall file a Statement of Grievance with the appropriate Grievance Officer within 10 days of the incident on which the grievance is based, or 10 days after the student learns of the basis for the grievance, whichever is later. The Statement of Grievance must be filed whether or not the student has already initiated efforts at informal resolution, if the student wishes the grievance to become official. Within 5 days following receipt of the Statement of Grievance Form, the Grievance Officer shall advise the student of his or her rights and responsibilities under these procedures, and assist the student, if necessary, in the final preparation of the Statement of Grievance form. If at the end of 10 days following the student's first meeting with the Grievance Officer, there is no informal resolution of the complaint which is satisfactory to the student, the student shall have the right to request a grievance hearing.

Ombuds

The Ombuds (also known as an "ombudsman" or "ombudsperson") at Las Positas College will be an identified employee who is committed to serve as a neutral and an impartial conflict resolution practitioner. The Ombuds will have no formal decision-making authority or disciplinary responsibilities. The Ombuds will serve as the initial point of contact for students who encounter challenges or difficulties while navigating the college environment and will be responsible for identifying the proper resource at the college. Furthermore, the Ombuds will facilitate the first connection or contact with the appropriate college entity or employee. The goal of the Ombuds is to ensure the rights and interests of all parties to the dispute are considered with the goal of achieving a fair outcome in accordance with applicable policies, procedures, laws, and regulations. The inability to achieve a fair outcome may result in the student being referred to the grievance or complaint process. For more information, please visit the Office of the Vice President of Student Services.

Academic Honesty Statement

Las Positas College promotes student success by providing high quality instruction and learning resources. The primary factor in student success, however, is the student's devotion of considerable time and energy to the learning process. A high grade in a Las Positas College course is, therefore, something of which both the college and the student can be proud. It indicates mastery of the material achieved through hard work.

Any form of academic dishonesty, whether cheating or plagiarism, undermines the value of grades for the entire student body and the College as a whole. It is an affront to every student who has labored to achieve success honestly and a threat to the College's reputation for academic excellence. For these reasons, the College does not tolerate any form of academic dishonesty. Any student attempting to gain an unfair advantage in a course will be severely penalized, up to and including suspension from classes. The actions taken against the student will also be permanently entered into the student's record in the case of repeated, flagrant, or serious incidents.

Student Conduct

All complaints of alleged misconduct made against a student by any person should be submitted to the Vice President of Student Services or designee, with a copy to the area administrator. These complaints must be made in writing, specifying the time, place, and nature of the alleged misconduct. Identifying information for the complainant is also required. If the Dean or the Vice President of Student Services determines the complaint to be capricious, the complaint may be dismissed.

The Vice President of Student Services or designee (VPSS) shall conduct an investigation of the reported incident as is appropriate. The VPSS/Designee will confer with the accused student for the purposes of advising the student of the report and of the student's rights under college rules and regulations. The VPSS/Designee may also procure information relating to the report from the accused student and other persons, including an assessment of damage to property or injury to persons. Such investigations shall be treated as confidential and shall not be placed in the student's file unless a charge is upheld and a decision is rendered by the VPSS/Designee against the student.

Following investigation, the VPSS/Designee will render a decision in writing to the student as well as the person filing the complaint against the student (if appropriate) within five (5) working days. The VPSS/Designee may find that the complaint lacks merit; or deliver a written statement to the accused student formally charging that student with misconduct.

Standards of Student Conduct

The Chabot-Las Positas Community College District, Administrative Procedure 5500 – Standards of Student Conduct.

The following conduct shall constitute good cause for discipline, including, but not limited to, the removal, suspension, or expulsion of a student.

1. Causing, attempting to cause, or threatening to cause physical injury to another person.
2. Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a District employee and the campus safety administrator/supervisor.
3. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in California Health and Safety Code Sections 11053 et. seq., an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.
4. Committing or attempting to commit robbery or extortion.
5. Causing or attempting to cause damage to District property or to private property on-campus.
6. Stealing or attempting to steal District property or private property on campus, or knowingly receiving stolen District property or private property on-campus.
7. Willful or persistent smoking in any area where smoking has

been prohibited by law or by regulation of the college or the District.

8. Committing sexual harassment as defined by law or by District policies and procedures.
9. Engaging in harassing or discriminatory behavior based on disability, gender, gender identity, gender expression, nationality, race or ethnicity, religion, sexual orientation, or any other status protected by law.
10. Engaging in intimidating conduct or bullying against another student through words or actions, including direct physical contact; verbal assaults, such as teasing or name-calling; social isolation or manipulation; and cyberbullying.
11. Willful misconduct that results in injury or death to a student or to District personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the District or on campus.
12. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, college personnel.
13. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty as defined by college faculty.
14. Dishonesty; forgery; alteration or misuse of District documents, records or identification; or knowingly furnishing false information to the District.
15. Unauthorized entry upon or use of District facilities.
16. Lewd, indecent or obscene conduct or expression on District-owned or controlled property, or at District sponsored or supervised functions.
17. Engaging in expression which is obscene, libelous or slanderous, or which so incites students as to create a clear and present danger of the commission of unlawful acts on District premises, or the violation of lawful District regulations, the substantial disruption of the orderly operation of the District.
18. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
19. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any district policy or administrative procedure.

Student Discipline Procedures

The Chabot-Las Positas Community College District, Administrative Procedure 5520 – Student Discipline Procedures.

The purpose of this procedure is to provide a prompt and equitable means to address violations of the Standards of Student Conduct. If the student wishes to proceed beyond the informal process described in Administrative Procedure 5500, then the following procedure applies. This procedure guarantees to the student or students involved the due process rights guaranteed them by state and federal constitutional protections. This procedure will be used in a fair and equitable manner, and not for purposes of retaliation. It is not

intended to substitute for criminal or civil proceedings that may be initiated by other agencies.

These Administrative Procedures are specifically not intended to infringe in any way on the rights of students to engage in free expression as protected by the state and federal constitutions, and by Education Code Section 76120, and will not be used to punish expression that is protected.

Americans with Disabilities Act

In accordance with the 1990 Americans with Disabilities Act (ADA), the Chabot-Las Positas Community College District prohibits discrimination against students and employees with physical or mental disabilities that substantially limit activities such as working, walking, talking, seeing, hearing, or caring for themselves. People who have a record of such impairment, and those regarded as having impairment, are also protected.

Section 508 of the Rehabilitation Act

Las Positas College is committed to providing access to its programs and services to all qualified individuals as mandated by Section 508 of the Rehabilitation Act. Students who have disabilities will have access to and use of technology information and services that is comparable to the access and use available to non-disabled students according to Section 508.

Harassment and Sexual Harassment

In accordance with Title VII and Title IX of the Education Amendments of 1972, the Chabot-Las Positas Community College District provides a school and working environment free from all forms of harassment, including sexual harassment. The District also maintains an environment in which all students and employees model this behavior and are treated with dignity and respect.

No person shall be subjected to sexual overtures or conduct either verbal, visual or physical, which are intimidating, hostile, offensive, or unwelcome. Such conduct by employees and students is deemed unacceptable behavior and will not be tolerated by the District.

For general provisions, specific procedures, and inquiries regarding the application of Sexual Harassment Policies contact Wyman Fong, Vice Chancellor of Human Resources at (925) 485-5261 or wfong@clpccd.org.

Smoking Policy

In an effort to prevent the serious health risks associated with exposure to smoking and environmental tobacco smoke, faculty, staff, students and visitors at Las Positas College who choose to use tobacco products may do so in parking lots and designated areas only. Smoking is not permitted in any College-owned vehicle.

Drug-Free Workplace

The Chabot-Las Positas Community College District is committed to maintaining a drug-free work/learning place in accordance with the requirements of the U.S. Drug-Free Workplace Act of 1988. The District certifies that it will provide a drug-free work/learning place by taking the actions required by the Drug-Free Workplace Act. For more information, please inquire with the Office of the Vice President of Student Services.

Visitors

Visitors to Las Positas College must register with the receptionist in the Student Services & Administration Building. Visits to the classrooms are by permit only. Non-students, including children, must have a permit issued from the Office of the Vice President of Student Services or appropriate college administrator. Prior permission from the instructor is required. Permission to enter upon the property of the District, either stated or implied in other policies or practices, is subject to the District policy of time, place, and manner.

Non-Discrimination Policy (Age)

Las Positas College complies with the Age Discrimination in Employment Act of 1974 which prohibits discrimination in employment on the basis of age.

Disability

Las Positas College does not discriminate on the basis of disability in admission or access to, or treatment or employment in, its programs and activities. Sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the regulation adopted thereunder prohibit such discrimination.

Race, Color, or National Origin

Las Positas College complies with the requirements of Title VI of the Civil Rights Act of 1964 and the regulations adopted thereunder. No person shall on the grounds of race, color, or national origin be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination under any program of the College. Las Positas College complies with Title VII of the Act, which includes nondiscrimination on the basis of religion and sex. Limited language skills are not a barrier to occupational programs and services of the College.

Gender

Las Positas College does not discriminate on the basis of gender in the educational programs or activities it conducts. Title IX of the Educational Amendments of 1972, as amended, and the administrative regulations adopted thereunder prohibit discrimination on the basis of gender in education programs and activities operated by the College. Such programs and activities include admission of students and employment.

Declaración de no Discriminación

Las Positas College, de acuerdo con las leyes civiles, declara que no discrimina hacia ninguna persona a base de su raza, color, nacionalidad, ascendencia, religión, creencia, sexo, edad o incapacidad, en sus programas y políticas de empleo y educación. El conocimiento limitado del idioma no limita acceso a programas y servicios ocupacionales. Cualquier pregunta sobre la aplicación de esta declaración puede dirigirse al U.S. Department of Education, Office for Civil Rights, 50 United Nations Plaza, San Francisco, CA 94102, teléfono (415) 486-5555.

Posting of Materials

The Vice President of Student Services or Division Deans must approve posting of flyers and posters. Only flyers and posters related to activities, events, or classes sponsored by Las Positas College or

Chabot College will be approved for general display. Other announcements will be considered for approval for posting on-campus.

Hazing

Hazing is prohibited at Las Positas College. Section 32050 of the Education Code makes participation in any kind of hazing a misdemeanor. Hazing is defined as “any method of initiation or preinitiation into a student organization or student body or any pastime or amusement engaged in with respect to these organizations which causes, or is likely to cause, bodily danger, physical harm, or personal degradation or disgrace resulting in physical or mental harm, to any pupil or other person attending any school, community college, college, university, or other educational institution in this state.”

Secret Organizations

Membership in secret fraternities, sororities, and organizations, as described by the California Education Code (Section 76035), is prohibited. Las Positas College students who participate in such groups shall be subject to student discipline in accordance with law.

Speech: Time, Place, and Manner

Procedures regarding time, place, and manner shall govern the exercise of free speech and related activities on the campus. The responsibility for maintaining conduct within the bounds of the law and compliance with the policies of the Board of Trustees shall be assumed by individuals, organizations, and the sponsoring organization's officers and student organizations, advisors and all organizational members. Restrictions on speech content shall extend no further than to restrain speech that is obscene, libelous, or presents a clear and present danger.

Privacy Rights of Students

Each student and alumni of Las Positas College has a right to review the official educational records, files, documents, and other materials that contain information directly related to him or her; and challenge such records that are inaccurate, misleading, or otherwise inappropriate. It is also the policy of the College that, unless excluded by state or federal law, no record, files, documents, materials, or personally identifiable information contained therein shall be released to any individual, agency, or organization without the express written consent of the student.

Any student desiring to review his/her official educational records should contact the Dean of Enrollment Services to determine procedures for such review. Any student desiring to challenge the content of his/her official educational records should contact the Office of the Vice President of Student Services.

While the College does not provide general directory services, it may by law under special circumstances release the following information about a student: name, address, telephone number, date and place of birth, major field of study, class schedule, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degree and awards received, and the most recent previous public or private school of attendance. Any student who does not wish such information to be released about his/her participation or status should notify the Admissions and Records Office in writing at the beginning of each semester or term of

attendance.

Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights are the right to inspect and review the student's education records within 45 days of the day the College receives a request for access. Students should submit to the Dean of Enrollment Services, a written request that identifies the record(s) they wish to inspect. The Dean will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Dean of Enrollment Services, they shall advise the student of the correct official to whom the request should be addressed.

The right to request the amendment of the student's education records that the student believes is inaccurate or misleading. Students may ask the College to amend a record that they believe is inaccurate or misleading. They should write the Dean of Enrollment Services or College official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the College decides not to amend the record as requested by the student, the College will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception, which permits disclosure without consent, is disclosure to school officials with legitimate educational interests. A school official is defined as a person employed by Chabot-Las Positas Community College District in an administrative, supervisory, academic, or support staff position (including law enforcement unit and health staff); a person or company with whom the College or District has contracted (such as an attorney, auditor, or collection agency); a person serving on the Board of Trustees; or a person assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional duties and responsibilities.

Upon request, the College discloses education records without consent to officials of another school in which a student seeks or intends to enroll. While the College does not provide general student directory services, it may release the following information about a student without consent: name, address, telephone number, date of birth, major field of study, photos, degree and awards received and date of attendance. Any student, who does not wish such information to be released about him/herself, shall notify Admissions and Records Office in writing, no later than 10 school days after the start of the term. Las Positas College does not release student information for individual use, private business or commercial firms for use in advertising and publicity.

If a student has a concern, they have the right to file a complaint with the U.S. Department of Education concerning alleged failures by the College to comply with the requirements of FERPA. The name and address of the office that administers FERPA is the U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC

20202-4605. Website: www.ed.gov/policy/gen/guid/fpco/ferpa.

For more information regarding FERPA, contact the Vice President of Student Services at (925) 424-1406 or the Dean of Enrollment Services at (925) 424-1542.

ACADEMIC REGULATIONS

Academic Standards

It is the policy of the Las Positas College Academic Senate that all academic courses be taught at a post-secondary level, particularly courses for which Las Positas College has articulation agreements with four-year institutions. When a course is articulated, it assures that students completing the course have attained certain levels of academic skill and knowledge comparable with the equivalent course at a four-year institution.

It is understood that students enter Las Positas College with varying levels of scholarship and achievement. Because of this, some students will need to take extra measures (tutoring, basic skills work, etc.) to master their college coursework. It is the student's responsibility to take appropriate action to ensure his/her success; faculty are not expected to alter course content below the college-level so that students enrolled in the class will pass. Course content and objectives are reflected in the course outline on file with the Office of Academic Services, 1600, and are based on the academic foundation students are expected to have upon entering the course.

Faculty Office Hours

All members of the full-time faculty schedule office hours each week. This schedule is posted outside each instructor's office. Students are encouraged to take advantage of this opportunity, the benefits of which include:

- Assistance in understanding and achieving specific course expectations
- Development of concepts and understanding beyond the course expectations
- Insight into career opportunities within the instructor's area of expertise
- Encouragement, assistance, and direction in meeting both educational and personal needs
- Continuing association with a member of the academic community.

Attendance Requirements

It is assumed that each student will consider class attendance an absolute requirement. It is the student's responsibility to attend every class the scheduled length of time. Excessive absences, tardiness, and leaving class early may be taken into consideration by instructors in assigning grades.

Excessive Absence

A student absent for a total of four consecutive, or six cumulative,

instructional hours and/or two consecutive weeks of instruction may be dropped from that class by the instructor. This action constitutes an official termination of class enrollment and will be recorded as specified on in the section on “Withdrawing from Classes” in this Catalog.

Reporting Absence

Absences should be cleared personally with instructors. Messages may be sent directly to the instructor’s college email or left directly on the instructor’s voice-mail.

Examinations and Evaluations

Students will be expected to take examinations and to complete and submit reports and/or projects. The instructor will determine the scheduling of exams and due dates of reports and projects. Unless the student and instructor have made prior arrangements, the instructor is under no obligation to reschedule missed exams or to extend deadlines for reports and/or projects.

Removal of Disruptive Students

Instructors may remove disruptive students from the classroom for the duration of a class period but may not terminate their enrollment for disciplinary reasons. The Vice President of Student Services or designee may recommend suspension of a student for due cause. Only the Board of Trustees can expel a student from the College District.

Use of Electronic Recorders

Students are not permitted to make recordings in class or in any campus meetings, including remote online class meetings, without the approval of the instructors involved. Exceptions shall be made for students with disabilities who have permission from the Disabled Student Programs and Services.

Grades

Grades are a means of communicating student achievement within courses of instruction. College grades are defined as follows:

GRADE	MEANING	GRADE VALUE
A	Excellent	4 grade points per unit
B	Above Average	3 grade points per unit
C	Average	2 grade points per unit
D	Barely Passing	1 grade point per unit
F	Failing	0 grade points/units attempted with no units earned. May negatively affect progress. See the section on “Academic Probation and Dismissal” in this Catalog.
P	Pass	0 grade points/units earned with no units attempted.
NP	No Pass	0 grade points/no units earned and no units attempted. See the section on “Academic Probation and Dismissal” in this Catalog.

GRADE	MEANING	GRADE VALUE
SP	Satisfactory Progress	0 grade points/no units earned and no units attempted. Used to indicate satisfactory progress, but not completion, of a noncredit course.
I	Incomplete	0 grade points/no units earned and no units attempted. May negatively affect progress. See the section on “Academic Probation and Dismissal” in this Catalog.

Pass/No Pass Grades

(Unit Limitations May Exist at Transfer Institutions)

In accordance with the Education Code and the Administrative Code, Las Positas College has established a grading policy which adds the “P” (pass) and “NP” (no pass) grades to the standard letter grades (A, B, C, D, F) used in colleges and universities. Courses in which a “P” (pass) grade is earned will apply toward the 60 units required for graduation, but will not affect the student’s grade point average. A maximum of 12 units of “P” (pass) may be attempted and applied toward the Associate in Arts or Associate in Science Degree.

Additional units may be applied provided the student secures prior approval of the of Dean of Student Services. A course in which a “NP” (no pass) grade is earned will not apply toward graduation and will not affect the student’s grade point average. An excess of number of “NP” (no pass) grades will affect the student’s academic progress ratio, resulting in a low figure.

Offering courses for pass/no pass grades provides the student with the opportunity to explore areas outside his/her current interest field without undue concern for his/her grade point average. This policy allows the student to take coursework outside his/her major without the fear of a substandard grade, namely a “D” or “F.” Students are expected to complete the course and comply with College attendance requirements and other expectancies of the course. Should they fail to do so, their enrollment in the class may be terminated; and the work may be graded on the basis of a standard letter grade.

- Some courses solely for a pass/no pass (P or NP) grade.
- Some courses solely for a standard letter grade.
- Some courses in which the student may choose to complete the course for either a pass/no pass grade OR for a standard letter grade.

On or before the last day of the fifth week of the semester, the student shall inform the Admissions and Records Office, by petition, of his/her intention to complete a course for a pass/no pass grade and the instructor shall report to the Dean of Enrollment Services a final grade of “P” (pass) or “NP” (no pass) for students who so petition. The student’s decision to opt for pass/no pass grade may not be reversed by either the student or the instructor at a later date.

The “P” (pass) grade will be given to indicate completion of a course with “C” or better work.

A student may repeat a course in which a grade of “D,” “F” or “NP”

(no pass) is earned.

Administrative Symbol “IP”—In Progress

The administrative symbol “IP” is established to indicate coursework “in progress.” The symbol “IP” is not a grade; therefore, it has no value in calculating unit credit or grade point average. The required coursework to remove the “IP” must be completed by the end of the term following the date the “IP” was granted. If a student is assigned an “IP” at the end of a term and does not complete that course during the subsequent term, the appropriate faculty member will assign an evaluative symbol (grade) to be recorded on the student’s permanent record.

Administrative Symbol “RD”—Report Delayed

Only the Dean of Enrollment Services can assign the administrative symbol “RD”. It is to be used when there is a delay in reporting a grade due to extenuating circumstances. It is a temporary notation to be replaced by a permanent grade/symbol, as soon as possible. “RD” shall not be used in calculating grade point averages.

Administrative Symbol “I”—Incomplete

Incomplete academic work for unforeseeable emergency and justifiable reasons at the end of the term may result in an “I” symbol being entered by the instructor on the student’s permanent record. The student may complete the course work by the end of the following term or semester and receive an appropriate letter grade. If the student does not complete the course work before this deadline, the right of the student to make up the work is forfeited. The student may petition to extend the deadline date because of extenuating circumstances, but this will require the approval of the Dean of Enrollment Services of Las Positas College, or designee, and the instructor of record. The “I” will be replaced with the alternate letter grade assigned by the instructor at the time the incomplete was assigned.

A grade change form will contain the following documentation and shall be maintained by the Dean of Enrollment Services.

- The condition(s) stated by the instructor for removal of the “I”;
- The letter grade to be assigned if the work has not been completed within the designated time limit;
- The letter grade assigned when the stipulated work has been completed; and
- The signature of the student.

The “I” symbol shall not be used in calculating units attempted or for grade points.

Academic Grade Point Average

The Academic Grade Point Average (GPA) is an index of the quality of a student’s work.

To enable the calculation of the GPA, eligibility for honors and recognition, and other scholastic status, letter grades are converted to numerical form using the grade value as previously defined.

Grades earned in non-degree applicable courses (numbered 100-299) will not be used when calculating a student’s degree applicable grade point average. Courses below the English 1A requirement are not degree applicable.

The GPA is calculated by dividing total grade points by total units attempted. Points are determined as follows:

Grade Points

A = 4 points per unit

B = 3 points per unit

C = 2 points per unit

D = 1 points per unit

F = 0 points per unit

Example

HISTORY 1	3 units x 3 grade points (B) = 09 grade points
MATH 1	5 units x 2 grade points (C) = 10 grade points
KIN 1	.5 unit x 4 grade points (A) = 02 grade points
TOTAL	8.5 units = 21 grade points
21 DIVIDED BY 8.5 = 2.47 OR C	

Scholastic Honors

Students who complete at least 6 units of work each semester with grades yielding a semester GPA of 3.25 or better are recognized for academic distinction by placement on the Academic Honors List and by a notation on the semester grade report and transcript.

Students who graduate with “Highest Honors” (GPA of 3.50 or better) and those who graduate with “Honors” (GPA of 3.25 or better) are recognized at graduation.

The Sigma Theta Chapter of Alpha Gamma Sigma (AGS) is a California Community College Honor Scholarship Society that recognizes academic achievement. Membership eligibility and other information are available through the AGS advisor.

Grade Change Deadline Period

Awarding grades to students is the responsibility of the instructor of the course in which the student is registered. The determination of the student’s grade by the instructor shall be final in the absence of mistake, fraud, bad faith, or incompetence.

When a student believes that an error has been made in the assignment of a grade, he or she should discuss the problem with the instructor. To correct an erroneous grade, a special “Request for Grade Change” form must be completed and presented to the Office of Admissions and Records by the instructor. The Office of Admissions and Records will forward the form to the Dean of Enrollment Services.

Requests for a grade change must be made during the semester immediately following the semester/session for which the grade was assigned. Responsibility for monitoring personal academic records rests with the student.

Grade changes will not be made after the established deadline except in cases with extenuating circumstances. These are acute medical, family or other personal problems that cause the student to be unable to meet the deadline. Requests for a grade change under this exception shall be made to the Dean of Enrollment Services (or designee) who may, upon verification of the circumstance(s), authorize the initiation of a grade change to “NGR” or “W”. The

student must present evidence of the extenuating circumstance(s).

Original copies of the instructor grade reports will be retired to microfilm after a five-year retention period. Grade changes shall not be made after that time.

Academic Renewal

Academic Renewal, in accordance with the California Education Code Sections 55764 and 55765, is a process that permits the alleviation of substandard (D's, F's) academic coursework not reflective of the student's current scholastic ability. Grades alleviated by this process will be disregarded in computing the student's grade point average.

For students to be eligible for academic renewal, a period of at least two (2) years must have elapsed since completion of the coursework to be disregarded. The student may petition the Dean of Enrollment Services at Las Positas College for academic renewal upon completion of the following:

- A minimum of 12 units taken consecutively at a regionally accredited institution with a grade point average of 2.5 or better; or
- A minimum of 20 units with at least a 2.0 grade point average.

Upon approval, the student's permanent record shall be annotated in such a manner that all courses disregarded shall remain legible on the transcript, indicating a true and accurate history of the student's record.

Students may petition for academic renewal only once. Once the academic renewal process has been completed, it cannot be reversed. A maximum of 24 units of work may be renewed.

Academic renewal at Las Positas College does not guarantee that other colleges will accept this action. Acceptance of academic renewal is at the discretion of the receiving institution.

Catalog Requirements / Continuous Attendance

A student in continuous attendance in regular semesters may, for the purpose of meeting degree or certificate requirements, elect to meet the requirements in effect at any time during their period of continuous attendance at the Chabot-Las Positas Community College District.

Graduation requirements are listed in the Catalog. If a break in attendance occurs before graduation requirements have been met, the graduation requirements that apply to the student are those listed in the Catalog in force at the time continuous studies are resumed.

Continuous attendance is defined as enrollment in at least one semester during the academic year excluding summer session. Any academic record symbol (A-F, P/N, I, IP, RD, W) shall constitute enrollment. A student who drops out for one academic year or more is considered to be a returning student.

The Las Positas College Catalog Requirements and Continuous Attendance Policy do not necessarily apply to requirements in effect at transfer institutions. Courses applicable toward major and general education requirements may change. Students who are planning to transfer are advised to consult the catalog of the university to which they will transfer.

Notice of Unsatisfactory Work (Early Alert)

Instructors may notify students of unsatisfactory work at any time during the semester. Such notices are given to the student in person or mailed to the student at his/her home address. Excessive absences, academic deficiency, and failure to submit assignments constitute reasons for notices of unsatisfactory work. A student who receives such notices, or any student who experiences difficulty with academic achievement, is encouraged to consult with his/her instructor and counselor for assistance.

Scholastic Standards

The Academic Standards Policy of Las Positas College is established to assist students in making appropriate educational plans. There are two indices to academic standards: Academic Status and Academic Progress.

Academic Probation and Dismissal

A student who has attempted at least 12 semester units of college courses and has a cumulative grade point average of less than 2.0 will be placed on Academic Probation I.

A student on Academic Probation I who does not raise his/her cumulative grade point average to 2.0 or higher in the following semester will be placed on Academic Probation II.

Veterans lose certification for Veterans Benefits after two semesters of academic probation; refer to the Office of Veterans Affairs.

A student on Academic Probation II who does not raise his/her cumulative grade point average to a 2.0 or higher in the following semester of attendance will be dismissed. The first time a student is dismissed, he or she may apply for readmission after one semester, summer session not included, of non-attendance. In the case of a second dismissal, the student may apply for readmission after 5 years of non-attendance or upon appeal to the Vice President of Student Services. Summer session does not count as a semester in determining academic status.

Removal of Poor Academic Status

Once a student on academic probation raises his or her overall (cumulative) grade point average to a 2.0 ("C") or higher, s/he will be taken off Academic Probation status and will become a "student in good standing."

Progress Probation and Dismissal

Progress Probation is determined by the percentage of cumulative units with grades of W, N, or I (Poor Progress Grades). A student who has attempted 12 cumulative semester units of College course work will be placed on Progress Probation I if 50% or more of the cumulative units attempted resulted in Poor Progress grades.

A student on Progress Probation I who does not reduce his/her percentage of cumulative poor progress units to below 50% will be placed on Progress Probation II.

If a student on Progress Probation II continues to have 50% or more of his/her cumulative units made up of Poor Progress grades in the following semester, s/he will be dismissed. The first time a student is dismissed, he or she may apply for readmission after one semester (summer session not included) of non-attendance. In the case of a second dismissal, the student may apply for readmission after 5 years of non-attendance or upon appeal to the Vice President of Student

International Baccalaureate (IB) Examinations

- Credit may be earned for the International Baccalaureate (IB) examinations with scores of 4 or higher.
- A score of 5, 6 or 7 on Higher Level exams is required to grant credit for IGETC certification.
- An acceptable IB score for IGETC equates to either 3 semester or 4 quarter units for certification purposes.
- Students who have earned credit from an IB exam should not take a comparable college course because transfer credit will not be granted for both.
- CSU units count toward eligibility for admission. The units may not apply towards Associate Degrees for Transfer (AD-T) or the baccalaureate degree. The units may not all apply toward certification of the corresponding GE-Breadth area.
- All units listed are semester units.

IB Examination HL	LPC Credit				CSU Credit				UC Credit			
	Passing Score	Units	GE Area	GE Units	Passing Score	Units	GE-B Area	GE-B Units	Passing Score	Units	IGETC Area	IGETC Units
Biology	5	6	II	3	5	6	B2	3	5	5.3	5B	3
Chemistry	5	6	II	3	5	6	B1	3	5	5.3	5A	3
Economics	5	6	S	3	5	6	D2	3	5	5.3	4	3
Geography	5	6	S	3	5	6	D5	3	5	5.3	4	3
History (any region)	5	6	III or IV	3	5	6	C2 or D6	3	5	5.3	3B or 4	3
Language A Literature (any language)	4	6	III	3	4	6	C2	3	5	5.3	3B*	3
Language A Language and Literature (any language)	4	6	III	3	4	6	C2	3	5	5.3	3B*	3
* Students earn IGETC area 3B and 6A if they pass IB Language A Literature or Language A Language and Literature with any language except English.												
Language B (any language)	4	6	n/a	0	4	6	n/a	0	5	5.3	6A	3
Mathematics	4	6	L	3	4	6	B4	3	5	5.3	2A	3
Physics	5	6	N	3	5	6	B1	3	5	5.3	5A	3
Psychology	5	3	S	3	5	3	D9	3	5	5.3	4	3
Theatre	4	6	H	3	4	6	C1	3	5	5.3	3A	3

Advanced Placement (AP) Examinations

- Credit may be earned for the College Board Advance Placement (AP) Exams with scores of 3 or higher.
- Course credit and units granted at Las Positas College may differ from amounts granted by transfer institutions or other community colleges.
- CSU units count toward eligibility for admission and may not apply towards Associate Degrees for Transfer (AD-T) or the baccalaureate degree. The units may not all apply toward certification of the corresponding GE-Breadth area.
- All units listed are semester units.

AP Examination	LPC Credit				CSU Credit			UC Credit		
	Units	GE Area	GE Units	LPC Course(s)	Units	GE-B Area	GE-B Units	Units	IGETC Area	IGETC Units
Art History	6	III	3	ARHS 4 ARHS 5	6	C1 or C2	3	5.3	3A or 3B	3
Biology	6	II	3	BIO 30	6	B2 & B3	4	5.3	5B & 5C	4
Calculus AB	5	IB	3	MATH 1	3*	B4	3	2.6**	2A	3
Calculus BC	10	IB	3	MATH 1 MATH 2	6*	B4	3	5.3**	2A	3
Calculus BC/AB Subscore***	5	IB	3	MATH 1	3*	B4	3	2.6**	2A	3
Calculus Exam Limitations										
* Maximum credit: one exam in calculus or computer science may be applied to the baccalaureate for CSU.										
** Maximum credit: 5.3 semester units for both MATH AB and BC exams; 2.6 semester units for both AB and the AB Subscore for UC										
*** Students who take the BC exam and earn a subscore of 3 or higher on the AB portion will receive credit for the AB exam, even if they do not receive a score of 3 or higher on the BC exam for UC.										
Chemistry	6	II	3	CHEM 1A	6	B1 & B3	4	5.3	5A & 5C	4
Chinese Language and Culture	6	III	3	n/a	6	C2	3	5.3	3B & 6A	3
Comparative Government and Politics	3	IV	3	POLI 20	3	D8	3	2.6	4	3
Computer Science A	4	n/a	0	CS 31	3*	n/a	0	5.3	n/a	0
Computer Science Principles	6	n/a	0	n/a	6*	B4	3	5.3	n/a	0
Computer Science Exam Limitations										
* Maximum credit: one exam in computer science or calculus may be applied to the baccalaureate for CSU.										
English Language and Composition	6	IA	3	ENG 1A	6	A2	3	5.3*	1A	3
English Literature and Composition	6	IA	3	ENG 1A	6	A2 & C2	6	5.3*	1A or 3B	3
English Exam Limitations										
* Maximum credit: 5.3 semester units for both English Language and Composition and English Literature and Composition exams for UC										
Environmental Science	4	II	3	EVST 5	4	B1 & B3	4	2.6	5A & 5C	3
European History	6	III or IV	3	HIST 2	6	C2 or D6	3	5.3	3B or 4	3
French Language and Culture	6	III	3	FREN 1A	6	C2	3	5.3	3B & 6A	3
French Language and Culture (Score of 4)	10	III	3	FREN 1A FREN 1B	6	C2	3	5.3	3B & 6A	3
German Language and Culture	6	III	3	n/a	6	C2	3	5.3	3B & 6A	3
Human Geography	3	IV	3	GEOG 2	3	D5	3	2.6	4	3
Italian Language and Culture	6	III	3	n/a	6	C2	3	5.3	3B & 6A	3
Japanese Language and Culture	6	III	3	n/a	6	C2	3	5.3	3B & 6A	3
Latin	6	III	3	n/a	6	C2	3	5.3	3B & 6A	3
Macroeconomics	3	IV	3	ECON 2	3	D2	3	2.6	4	3
Microeconomics	3	IV	3	ECON 1	3	D2	3	2.6	4	3
Music Theory	6	III	3	MUS 8A	6	n/a	0	5.3	n/a	0

Advanced Placement (AP) Examinations

AP Examination	LPC Credit				CSU Credit			UC Credit		
	Units	GE Area	GE Units	LPC Course(s)	Units	GE-B Area	GE-B Units	Units	IGETC Area	IGETC Units
Music Theory (Score of 5)	8	III	3	MUS 8A MUS 8B	6	n/a	0	5.3	n/a	0
Music Exam Limitations										
* UC's grant credit for the full Music Theory exam. Students who earn only a subscore will not receive exam credit for UC.										
Physics 1	4	II	3	PHYS 2A	4*	B1 & B3	4	5.3**	5A & 5C	4
Physics 2	4	II	3	PHYS 2B	4*	B1 & B3	4	5.3**	5A & 5C	4
Physics C: Electricity and Magnetism	5	II	3	PHYS 1C	4*	B1 & B3	4	2.6**	5A & 5C	4
Physics C: Mechanics	5	II	3	PHYS 1A	4*	B1 & B3	4	2.6**	5A & 5C	4
Physics Exam Limitations										
* Maximum credit: 4 semester units toward GE and 6 semester units toward transfer for all Physics exams passed for CSU.										
** Maximum credit: 5.3 semester units for all Physics exams for UC.										
Psychology	3	IV	3	PSYC 1	3	D9	3	2.6	4	3
Seminar	3	n/a	0	n/a	3	n/a	0	0	n/a	0
Spanish Language and Culture	6	III	3	SPAN 1A	6	C2	3	5.3	3B & 6A	3
Spanish Language and Culture (Score of 4)	10	III	3	SPAN 1A SPAN 1B	6	C2	3	5.3	3B & 6A	3
Spanish Literature and Culture	6	III	3	n/a	6	C2	3	5.3	3B & 6A	3
Spanish Literature and Culture (Score of 4)	6	III	3	SPAN 21	6	C2	3	5.3	3B & 6A	3
Statistics	4	IB	3	MATH 40	3	B4	3	2.6	2A	3
Studio Art: 2D Design	3	n/a	0	ARTS 23	3	n/a	0	5.3*	n/a	0
Studio Art: 3D Design	3	n/a	0	ARTS 24	3	n/a	0	5.3*	n/a	0
Studio Art: Drawing	3	n/a	0	ARTS 2A	3	n/a	0	5.3*	n/a	0
AP Studio Art Exam Limitations										
* Maximum credit: 5.3 semester units for all Studio Art exams for UC.										
United States Government and Politics	4	IV	3	POLI 7	3	D8 & US-2	3	2.6	4	3
United States History	6	III or IV	3	HIST 7 HIST 8	6	C2 or D6 & US-1	3	5.3	3B or 4	3
World History: Modern	3	III or IV	3	n/a	3	C2 or D6	3	5.3	3B or 4	3



College-Level Examination Program (CLEP)

- Credit may be earned for the College-Level Examination Program (CLEP) with scores of 50 or higher.
- CSU units count toward eligibility for admission. The units may not apply towards Associate Degrees for Transfer (AD-T) or the baccalaureate degree. The units may not all apply toward certification of the corresponding GE-Breadth area.
- If a student passes more than one CLEP test in the same language other than English, then only one examination may be applied to the baccalaureate. For each test in a language other than English, a passing score of 50 is considered “Level I” and earns six units of baccalaureate credit; the higher score listed for each test is considered “Level II” and earns additional units of credit and placement in Area C2 of GE Breadth, as noted.
- All units listed are semester units.

CLEP Examination	Passing Score	LPC Credit			CSU Credit		
		Units	GE Area	GE Units	Units	GE-B Area	GE-B Units
American Government	50	3	IV	3	3	D8	3
American Literature	50	3	III	3	3	C2	3
Analyzing and Interpreting Literature	50	3	III	3	3	C2	3
Biology	50	3	II	3	3	B2	3
Calculus	50	3	IB	3	3	B4	3
Chemistry	50	3	II	3	3	B1	3
College Algebra	50	3	IB	3	3	B4	3
College Algebra - Trigonometry	50	3	IB	3	3	B4	3
College Composition	50	0	n/a	0	0	n/a	0
College Composition - Modular	50	0	n/a	0	0	n/a	0
College Mathematics	50	0	n/a	0	0	n/a	0
English Composition (no essay)	50	0	n/a	0	0	n/a	0
English Composition with Essay	50	0	n/a	0	0	n/a	0
Financial Accounting	50	3	n/a	0	3	n/a	0
French Level I	50	6	n/a	0	6	n/a	0
French Level II	59	9	III	3	9	C2	3
Freshman College Composition	50	0	n/a	0	0	n/a	0
German Level I	50	6	n/a	0	6	n/a	0
German Level II	60	9	II	3	9	C2	3
History, United States I	50	3	IV	3	3	D6 & US-1	3
History, United States II	50	3	IV	3	3	D6 & US-1	3
Human Growth and Development	50	3	VA*	3*	3	E	3
* AA GE credit only							
Humanities	50	3	III	3	3	C2	3
Information Systems and Computer Applications	50	3	n/a	0	3	n/a	0
Introduction to Educational Psychology	50	3	n/a	0	3	n/a	0
Introductory Business Law	50	3	n/a	0	3	n/a	0
Introductory Psychology	50	3	IV	3	3	D9	3
Introductory Sociology	50	3	IV	3	3	D0	3
Natural Sciences	50	3	II	3	3	B1 or B2	3
Pre-Calculus	50	3	IB	3	3	B4	3
Principles of Accounting	50	3	n/a	0	3	n/a	0

College-Level Examination Program (CLEP)

CLEP Examination	Passing Score	LPC Credit			CSU Credit		
		Units	GE Area	GE Units	Units	GE-B Area	GE-B Units
Principles of Macroeconomics	50	3	IV	3	3	D2	3
Principles of Management	50	3	n/a	0	3	n/a	0
Principles of Marketing	50	3	n/a	0	3	n/a	0
Principles of Microeconomics	50	3	IV	3	3	D2	3
Social Sciences and History	50	0	n/a	0	0	n/a	0
Spanish Level I	63	6	n/a	0	6	n/a	0
Spanish Level II	63	9	III	3	9	C2	3
Spanish with Writing I	50	6	n/a	0	6	n/a	0
Spanish with Writing II	63	9	III	3	9	C2	3
Western Civilization I	50	3	III or IV	3	3	C2 or D6	3
Western Civilization II	50	3	IV	3	3	D6	3

Services. Summer session does not count as a semester in determining progress status.

Removal of Poor Progress Status

In order to reverse poor progress status and become a student in good standing, a student must reduce the cumulative units of W, N or I grades to less than 50% of his/her total units attempted. Summer session does not count as a semester in determining progress status.

Appeal Process

Under extenuating circumstances beyond the student's control or ability to foresee, exceptions to these policies are granted by the Vice President of Student Services or designee. Students should see a counselor to discuss their progress or academic status and for details associated with the academic standards policy.

Credit for Prior Learning

A past or currently enrolled student in good standing with an educational plan on file may be awarded credit for prior learning for any course listed in the catalog. Award for credit may be made for general education, program or elective coursework. Methods for awarding credit for prior learning are as follows:

- Faculty assessment of a portfolio or documentation of college level knowledge or skills and/or college-level training not acquired at an institution for higher learning, such as industry recognized credentials or training
- Credit through the satisfactory completion of examination
- Achievement of a satisfactory score on an Advanced Placement examination
- Achievement of a satisfactory score on a high-level International Baccalaureate (IB) examination
- Achievement of a satisfactory score on the College Level Examination Program (CLEP)
- Evaluation of Joint Service Transcripts (see page XX for information)

General Education Pattern for Associate of Science (AS) Degree

- Courses may be listed in more than one area but will NOT be certified more than once, unless otherwise stated.
- For a course to meet an AA requirement, the course must be on the AA pattern during the academic year it is taken.

Area I. Language and Rationality (at least 6 units required with at least 1 course each from English Composition and Communication and Analytical Thinking)

I.A - English Composition (at least 3 units required) Complete with a grade of 'C' or higher or 'P'

ENG 1A Critical Reading and Composition	ENG 1AEX Critical Reading and Composition Expanded	ESL 1A Critical Reading and Composition for ESL
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I.B - Communication and Analytical Thinking (at least 3 units required)

ASL 1A American Sign Language I ASL 1B American Sign Language II BUSN 33 Personal Financial Management and Planning BUSN 48 Human Relations in Organizations BUSN 52 Business Communications CIS 7 Introduction to Programming Concepts & Methodologies CIS 43 Professional Communications CIS 50 Introduction to Computing Information Technology CMST 1 Fundamentals of Public Speaking CMST 2 Oral Interpretation of Literature CMST 4 Introduction to Communication Studies CMST 10 Interpersonal Communication CMST 46 Argumentation and Debate CMST 48 Activities in Forensics CNT 43 Professional Communications CS 1 Computing Fundamentals I	CS 17 Discrete Mathematical Structures CS 43 Professional Communications FREN 1A Beginning French FREN 1B Elementary French JAMS 11 Introduction to Reporting & Newswriting MATH 1 Calculus I MATH 2 Calculus II MATH 3 Multivariable Calculus MATH 5 Ordinary Differential Equations MATH 7 Elementary Linear Algebra MATH 10 Discrete Mathematical Structures MATH 27 Number Systems for Educators MATH 30 College Algebra for STEM MATH 33 Finite Mathematics MATH 34 Calculus for Business and Social Sciences MATH 39 Trigonometry	MATH 40 Statistics and Probability MATH 47 Mathematics for Liberal Arts MATH 50 Intermediate Algebra for SLAM MATH 53A Technical Intermediate Algebra for Welding A MATH 53B Technical Intermediate Algebra for Welding B MATH 55 Intermediate Algebra for BSTEM PHIL 6 Introduction to Logic PHIL 8 Logic and Argumentation SPAN 1A Beginning Spanish SPAN 1B Elementary Spanish SPAN 21 Spanish for Bilingual Spanish Speakers I SPAN 22 Spanish for Bilingual Spanish Speakers II SPAN 23 Introduction to Hispanic Literature THEA 3A Beginning Improvisation THEA 25 Fundamentals of Stage Speech
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Area II. Natural Sciences (at least 3 units required)

ANTR 1 Biological Anthropology ANTR 1L Biological Anthropology Lab ANTR 2L Archaeology Field Lab ANTR 13 Introduction to Forensic Anthropology ASTR 10 Introduction to Astronomy: The Solar System ASTR 20 Introduction to Astronomy: Stars and the Universe ASTR 30L Introduction to Astronomy Lab BIO 1A General Botany BIO 1B General Zoology BIO 1C Cell and Molecular Biology BIO 7A Human Anatomy BIO 7B Human Physiology BIO 7C Microbiology BIO 10 Introduction to the Science of Biology BIO 20 Contemporary Human Biology BIO 30 Introduction to College Biology BIO 40 Humans and the Environment	BIO 50 Anatomy and Physiology BIO 60 Marine Biology BIO 70 Field Biology CHEM 1A General College Chemistry I CHEM 1B General College Chemistry II CHEM 12A Organic Chemistry I CHEM 12B Organic Chemistry II CHEM 30A Introductory and Applied Chemistry I CHEM 30B Introductory and Applied Chemistry II CHEM 31 Introduction to College Chemistry EVST 5 Energy and Sustainability GEOG 1 Introduction to Physical Geography GEOG 1L Introduction to Physical Geography Laboratory GEOG 8 Introduction to Atmospheric Science GEOG 12 Geography of California GEOG 15 Introduction to GIS GEOL 1 Physical Geology	GEOL 1L Physical Geology Laboratory GEOL 2 Historical Geology with Lab GEOL 5 Environmental Geology: Hazards & Disasters GEOL 7 Environmental Geology: Resources, Use Impact & Pollution GEOL 12 Introduction to Oceanography GEOL 12L Intro to Oceanography Laboratory GEOL 20 Earth Science for Educators PHYS 1A General Physics I PHYS 1B General Physics II PHYS 1C General Physics III PHYS 1D General Physics IV PHYS 2A Introduction to Physics I PHYS 2B Introduction to Physics II PHYS 10 Descriptive Physics PHYS 10L Descriptive Physics Lab PSYC 4 Brain, Mind and Behavior
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Area III. Humanities (at least 3 units required)

ASL 2A American Sign Language III ASL 2B American Sign Language IV ARHS 1 Introduction to Art History ARHS 2 Art of the Ancient Americas ARHS 3 Arts of Africa, Oceania, & Indigenous North Americas ARHS 4 Western Art History - Ancient to Medieval ARHS 5 Western Art History - Renaissance to Contemporary ARHS 7 Modern Art History ARHS 8 Asian Art History ARTS 2A Introduction to Drawing ARTS 3A Figure and Composition I ARTS 4A Introduction to Ceramics ARTS 7A Introduction to Watercolor Painting ARTS 12A Oil/Acrylic Painting: Beginning I ARTS 23 2-D Design CMST 2 Oral Interpretation of Literature CMST 5 Readers Theater CMST 11 Intercultural Communication ECE 61 Literature for the Young Child ENG 4 Critical Thinking and Writing About Literature ENG 7 Critical Thinking and Writing Across Disciplines ENG 11 Introduction to Creative Writing ENG 12A Craft of Writing Fiction ENG 12B Craft of Writing Fiction: Intermediate ENG 12C Craft of Writing Fiction: Advanced ENG 13A The Craft of Writing Poetry: Beginning ENG 13B The Craft of Writing Poetry: Intermediate ENG 20 Studies in Shakespeare ENG 32 U.S. Women's Literature ENG 35 Modern American Literature ENG 41 Modern World Literature ENG 42 Literature of the African Diaspora in America ENG 44 Literature of the American West ENG 45 Studies in Fiction FREN 2A Intermediate French I FREN 2B Intermediate French II	GDDM 3 The History of Modern Design GDDM 70 Photoshop and Lightroom for Photographers HIST 1 Western Civilization to 1600 HIST 2 Western Civilization since 1600 HIST 3 World History to 1500 HIST 4 World History since 1500 HIST 7 US History Through Reconstruction HIST 8 US History Post-Reconstruction HIST 14 History and American Cultures of California HIST 25 American Indian History HIST 28 History of the American West HIST 32 U.S. Women's History HUMN 2 Introduction to Film Studies HUMN 3 Introduction to Humanities HUMN 4 Global Cinemas HUMN 6 Nature and Culture HUMN 10 American Arts and Ideas HUMN 11 Culture and the Arts I: Ancient World to Renaissance HUMN 12 Culture and the Arts II: The Modern World HUMN 28 World Mythology MUS 1 Introduction to Music MUS 3 World Music MUS 4 Jazz in American Culture MUS 5 American Cultures in Music MUS 6 Basic Music Skills MUS 8A Music Theory and Musicianship 1 MUS 8B Music Theory and Musicianship 2 MUS 12 Wind Ensemble MUS 13 History of Rock & Roll MUS 14 Jazz Workshop MUS 19 Studies in Music Composition MUS 20A Elementary Guitar MUS 21A Beginning Piano MUS 23A Elementary Voice I MUS 34 Music in Film MUS 37 Music Industry Career Development	MUS 38 Applied Lessons MUS 44 Concert Choir MUS 45 Chamber Choir MUS 46 Vocal Jazz Ensemble PHIL 1 God, Nature, Human Nature PHIL 1H Honors Philosophy 1: God, Nature, Human Nature PHIL 2 Ethics PHIL 2H Honors Philosophy 2: Ethics PHIL 3 Aesthetics PHIL 4 Intro to Philosophy: Knowledge PHIL 5 Feminist Philosophy PHIL 6 Introduction to Logic PHIL 8 Logic and Argumentation PHTO 67 History of Photography PHTO 70 Photoshop and Lightroom for Photographers RELS 1 Religions of the World RELS 2 Bible: History and Literature RELS 3 Intro to Women's Spirituality RELS 11 The Nature of Islam SPAN 2A Intermediate Spanish I SPAN 2B Intermediate Spanish II SPAN 21 Spanish for Bilingual Spanish Speakers I SPAN 22 Spanish for Bilingual Spanish Speakers II SPAN 23 Introduction to Hispanic Literature THEA 1A Theory/Practice of Acting I THEA 1B Theory/Practice of Acting II THEA 4 American Cultures in Theater THEA 5 Theater for Young Audiences THEA 10 Introduction to Dramatic Arts THEA 11 Stage to Screen THEA 12 Film as Art & Communication THEA 14 Bay Area Theater THEA 52 Introduction to Design WLDT 71 Welding for the Arts
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General Education Pattern for Associate of Science (AS) Degree

- Courses may be listed in more than one area but will NOT be certified more than once, unless otherwise stated.
- For a course to meet an AA requirement, the course must be on the AA pattern during the academic year it is taken.

Area I. Language and Rationality (at least 6 units required with at least 1 course each from English Composition and Communication and Analytical Thinking)		
I.A - English Composition (at least 3 units required) Complete with a grade of 'C' or higher or 'P'		
ENG 1A Critical Reading and Composition	ENG 1AEX Critical Reading and Composition Expanded	ESL 1A Critical Reading and Composition for ESL
I.B - Communication and Analytical Thinking (at least 3 units required)		
ASL 1A American Sign Language I ASL 1B American Sign Language II BUSN 33 Personal Financial Management and Planning BUSN 48 Human Relations in Organizations BUSN 52 Business Communications CIS 7 Introduction to Programming Concepts & Methodologies CIS 43 Professional Communications CIS 50 Introduction to Computing Information Technology CMST 1 Fundamentals of Public Speaking CMST 2 Oral Interpretation of Literature CMST 4 Introduction to Communication Studies CMST 10 Interpersonal Communication CMST 46 Argumentation and Debate CMST 48 Activities in Forensics CNT 43 Professional Communications CS 1 Computing Fundamentals I	CS 17 Discrete Mathematical Structures CS 43 Professional Communications FREN 1A Beginning French FREN 1B Elementary French JAMS 11 Introduction to Reporting & Newswriting MATH 1 Calculus I MATH 2 Calculus II MATH 3 Multivariable Calculus MATH 5 Ordinary Differential Equations MATH 7 Elementary Linear Algebra MATH 10 Discrete Mathematical Structures MATH 27 Number Systems for Educators MATH 30 College Algebra for STEM MATH 33 Finite Mathematics MATH 34 Calculus for Business and Social Sciences MATH 39 Trigonometry	MATH 40 Statistics and Probability MATH 47 Mathematics for Liberal Arts MATH 50 Intermediate Algebra for SLAM MATH 53A Technical Intermediate Algebra for Welding A MATH 53B Technical Intermediate Algebra for Welding B MATH 55 Intermediate Algebra for BSTEM PHIL 6 Introduction to Logic PHIL 8 Logic and Argumentation SPAN 1A Beginning Spanish SPAN 1B Elementary Spanish SPAN 21 Spanish for Bilingual Spanish Speakers I SPAN 22 Spanish for Bilingual Spanish Speakers II SPAN 23 Introduction to Hispanic Literature THEA 3A Beginning Improvisation THEA 25 Fundamentals of Stage Speech
Area II. Natural Sciences (at least 3 units required)		
ANTR 1 Biological Anthropology ANTR 1L Biological Anthropology Lab ANTR 2L Archaeology Field Lab ANTR 13 Introduction to Forensic Anthropology ASTR 10 Introduction to Astronomy: The Solar System ASTR 20 Introduction to Astronomy: Stars and the Universe ASTR 30L Introduction to Astronomy Lab BIO 1A General Botany BIO 1B General Zoology BIO 1C Cell and Molecular Biology BIO 7A Human Anatomy BIO 7B Human Physiology BIO 7C Microbiology BIO 10 Introduction to the Science of Biology BIO 20 Contemporary Human Biology BIO 30 Introduction to College Biology BIO 40 Humans and the Environment	BIO 50 Anatomy and Physiology BIO 60 Marine Biology BIO 70 Field Biology CHEM 1A General College Chemistry I CHEM 1B General College Chemistry II CHEM 12A Organic Chemistry I CHEM 12B Organic Chemistry II CHEM 30A Introductory and Applied Chemistry I CHEM 30B Introductory and Applied Chemistry II CHEM 31 Introduction to College Chemistry EVST 5 Energy and Sustainability GEOG 1 Introduction to Physical Geography GEOG 1L Introduction to Physical Geography Laboratory GEOG 8 Introduction to Atmospheric Science GEOG 12 Geography of California GEOG 15 Introduction to GIS GEOL 1 Physical Geology	GEOL 1L Physical Geology Laboratory GEOL 2 Historical Geology with Lab GEOL 5 Environmental Geology: Hazards & Disasters GEOL 7 Environmental Geology: Resources, Use Impact & Pollution GEOL 12 Introduction to Oceanography GEOL 12L Intro to Oceanography Laboratory GEOL 20 Earth Science for Educators PHYS 1A General Physics I PHYS 1B General Physics II PHYS 1C General Physics III PHYS 1D General Physics IV PHYS 2A Introduction to Physics I PHYS 2B Introduction to Physics II PHYS 10 Descriptive Physics PHYS 10L Descriptive Physics Lab PSYC 4 Brain, Mind and Behavior
Area III. Humanities (at least 3 units required)		
ASL 2A American Sign Language III ASL 2B American Sign Language IV ARHS 1 Introduction to Art History ARHS 2 Art of the Ancient Americas ARHS 3 Arts of Africa, Oceania, & Indigenous North Americas ARHS 4 Western Art History - Ancient to Medieval ARHS 5 Western Art History - Renaissance to Contemporary ARHS 7 Modern Art History ARHS 8 Asian Art History ARTS 2A Introduction to Drawing ARTS 3A Figure and Composition I ARTS 4A Introduction to Ceramics ARTS 7A Introduction to Watercolor Painting ARTS 12A Oil/Acrylic Painting: Beginning I ARTS 23 2-D Design CMST 2 Oral Interpretation of Literature CMST 5 Readers Theater CMST 11 Intercultural Communication ECE 61 Literature for the Young Child ENG 4 Critical Thinking and Writing About Literature ENG 7 Critical Thinking and Writing Across Disciplines ENG 11 Introduction to Creative Writing ENG 12A Craft of Writing Fiction ENG 12B Craft of Writing Fiction: Intermediate ENG 12C Craft of Writing Fiction: Advanced ENG 13A The Craft of Writing Poetry: Beginning ENG 13B The Craft of Writing Poetry: Intermediate ENG 20 Studies in Shakespeare ENG 32 U.S. Women's Literature ENG 35 Modern American Literature ENG 41 Modern World Literature ENG 42 Literature of the African Diaspora in America ENG 44 Literature of the American West ENG 45 Studies in Fiction FREN 2A Intermediate French I FREN 2B Intermediate French II	GDDM 3 The History of Modern Design GDDM 70 Photoshop and Lightroom for Photographers HIST 1 Western Civilization to 1600 HIST 2 Western Civilization since 1600 HIST 3 World History to 1500 HIST 4 World History since 1500 HIST 7 US History Through Reconstruction HIST 8 US History Post-Reconstruction HIST 14 History and American Cultures of California HIST 25 American Indian History HIST 28 History of the American West HIST 32 U.S. Women's History HUMN 2 Introduction to Film Studies HUMN 3 Introduction to Humanities HUMN 4 Global Cinemas HUMN 6 Nature and Culture HUMN 10 American Arts and Ideas HUMN 11 Culture and the Arts I: Ancient World to Renaissance HUMN 12 Culture and the Arts II: The Modern World HUMN 28 World Mythology MUS 1 Introduction to Music MUS 3 World Music MUS 4 Jazz in American Culture MUS 5 American Cultures in Music MUS 6 Basic Music Skills MUS 8A Music Theory and Musicianship 1 MUS 8B Music Theory and Musicianship 2 MUS 12 Wind Ensemble MUS 13 History of Rock & Roll MUS 14 Jazz Workshop MUS 19 Studies in Music Composition MUS 20A Elementary Guitar MUS 21A Beginning Piano MUS 23A Elementary Voice I MUS 34 Music in Film MUS 37 Music Industry Career Development	MUS 38 Applied Lessons MUS 44 Concert Choir MUS 45 Chamber Choir MUS 46 Vocal Jazz Ensemble PHIL 1 God, Nature, Human Nature PHIL 1H Honors Philosophy 1: God, Nature, Human Nature PHIL 2 Ethics PHIL 2H Honors Philosophy 2: Ethics PHIL 3 Aesthetics PHIL 4 Intro to Philosophy: Knowledge PHIL 5 Feminist Philosophy PHIL 6 Introduction to Logic PHIL 8 Logic and Argumentation PHTO 67 History of Photography PHTO 70 Photoshop and Lightroom for Photographers RELS 1 Religions of the World RELS 2 Bible: History and Literature RELS 3 Intro to Women's Spirituality RELS 11 The Nature of Islam SPAN 2A Intermediate Spanish I SPAN 2B Intermediate Spanish II SPAN 21 Spanish for Bilingual Spanish Speakers I SPAN 22 Spanish for Bilingual Spanish Speakers II SPAN 23 Introduction to Hispanic Literature THEA 1A Theory/Practice of Acting I THEA 1B Theory/Practice of Acting II THEA 4 American Cultures in Theater THEA 5 Theater for Young Audiences THEA 10 Introduction to Dramatic Arts THEA 11 Stage to Screen THEA 12 Film as Art & Communication THEA 14 Bay Area Theater THEA 52 Introduction to Design WLDT 71 Welding for the Arts

General Education Pattern for Associate of Arts (AA) Degree
Area IV. Social and Behavioral Sciences (at least 3 units required)

AJ 50 Introduction to Administration of Justice	ENG 44 Literature of the American West	PCN 13 Multicultural Issues in Contemporary America
AJ 56 Fundamentals of Crime and Delinquency	ETHS 5 Introduction to Cross-Cultural Psychology	POLI 7 Introduction to American Government
AJ 60 Criminal Law	ETHS 6 Introduction to Race and Ethnicity	POLI 12 Introduction to California State and Local Government
AJ 66 Juvenile Procedures	GEOG 1 Introduction to Physical Geography	POLI 20 Comparative Government
AJ 78 Introduction to Probation and Parole	GEOG 2 Cultural Geography	POLI 25 Introduction to Political Theory
ANTR 1 Biological Anthropology	GEOG 5 World Regional Geography	POLI 26 Introduction to Gender, Sexuality, and Politics
ANTR 2 Introduction to Archaeology	GEOG 12 Geography of California	POLI 30 International Relations
ANTR 3 Cultural Anthropology	GEOG 15 Introduction to GIS	PSYC 1 General Psychology
ANTR 4 Language and Culture	GS 1 Introduction to Global Studies	PSYC 3 Introduction to Social Psychology
ANTR 5 Cultures of the U.S. in Global Perspective	GS 2 Global Issues	PSYC 4 Brain, Mind and Behavior
ANTR 6 Anthropology of Sex and Gender	HEA 3 Women's Health	PSYC 6 Abnormal Psychology
ANTR 7 Native American Cultures of North America	HEA 7 Introduction to Public Health	PSYC 12 Life-span Psychology
ANTR 8 World Prehistory in Archaeological Perspective	HEA 11 Health and Social Justice	PSYC 13 Psychology of Women
ANTR 12 Magic/Religion/Witchcraft/Healing	HIST 1 Western Civilization to 1600	PSYC 15 Abnormal Child Psychology
ANTR 13 Introduction to Forensic Anthropology	HIST 2 Western Civilization since 1600	PSYC 17 The Psychology of Sleep and Dreams
BUSN 18 Business Law	HIST 3 World History to 1500	PSYC 21 Introduction to Cross-Cultural Psychology
BUSN 20 International Business	HIST 4 World History since 1500	PSYC 25 Research Methods
BUSN 30 Business Ethics and Society	HIST 7 US History Through Reconstruction	PSYC 27 Introduction to Cognitive Science
CMST 3 Group Communication	HIST 8 US History Post-Reconstruction	SOC 1 Principles of Sociology
CMST 4 Introduction to Communication Studies	HIST 14 History and American Cultures of California	SOC 3 Introduction to Race and Ethnicity
CMST 10 Interpersonal Communication	HIST 25 American Indian History	SOC 4 Marriage and Family Relations
CMST 11 Intercultural Communication	HIST 28 History of the American West	SOC 5 Introduction to Global Studies
ECE 10 Introduction to Education	HIST 32 U.S. Women's History	SOC 6 Social Problems
ECE 56 Child Growth and Development	JAMS 1 Introduction to Mass Communications	SOC 7 Sociology of Sexuality
ECE 62 Child, Family and Community	JAMS 2 Introduction to Media	SOC 11 Sociology of Gender
ECE 79 Teaching in a Diverse Society	LGBT 1 Introduction to LGBTQ Studies	SOC 12 Popular Culture
ECON 1 Principles of Microeconomics	LGBT 2 Lesbian, Gay, Bisexual, Transgender, and Queer Psychology	SOC 13 Research Methods
ECON 2 Principles of Macroeconomics	MKTG 50 Introduction to Marketing	WMST 1 Introduction to Women's Studies
ECON 5 Economic History of the United States	PCN 3 Theories & Concepts of Counseling: An Introduction	WMST 2 Global Perspective of Women
ECON 10 General Economics	PCN 5 Introduction to Social Work & Human Services	

Area V. Wellness (at least 4 units required with at least 1 course each from Health and Kinesiology)

Veterans with DD214 honorable discharge receive a waiver for this area and 4 units

VA - Kinesiology (at least 1 unit required) Exemption from the Kinesiology requirement is allowed for illness or physical disability by filing a physician's statement at the Admissions & Records Office or for students who hold an AA/AS Degree or higher.

DANC 1 Introduction to Dance	DANC 4B Modern/Contemporary Dance B	FST 7 Fire Service Conditioning & Physical Agility Development
DANC 2A Jazz Dance Fundamentals/Beginning	DANC 5A Dance Composition 5A	Any Kinesiology Intercol. Athletics Course (KIN 32A-65)
DANC 2B Jazz Dance Beginning/Intermediate	DANC 5B Dance Composition 5B	Any Kinesiology Activity Course (KIN AF1-ZUM1)
DANC 3A Ballet Fundamentals/Beginning	DANC 6A Choreography for the Stage A	
DANC 4A Modern/Contemporary Dance A	DANC 6B Choreography for the Stage B	

VB - Health (at least 3 units required)

BIO 55 Orientation to Health Care	HEA 7 Introduction to Public Health	NTRN 1 Introduction to Nutrition Science
ECE 54 Child Health, Safety and Nutrition	HEA 11 Health and Social Justice	PSYC 10 Psychology of Human Sexuality
HEA 1 Introduction to Personal Health	KIN 22A Science of Soccer 1	
HEA 3 Women's Health	KIN 30 Introduction to Kinesiology	

Area VI. American Institutions (at least 3 units required)

HIST 7 US History Through Reconstruction	HIST 14 History and American Cultures of California	HIST 32 U.S. Women's History
HIST 8 US History Post-Reconstruction	HIST 25 American Indian History	POLI 7 Introduction to American Government

AC. American Cultures (at least 1 course required with a grade of 'C' or higher or 'P')

Where appropriate, the course can simultaneously satisfy 1 other graduate or subject area requirement.

ANTR 5 Cultures of the U.S. in Global Perspective	HIST 28 History of the American West	PCN 13 Multicultural Issues in Contemporary America
ANTR 7 Native American Cultures of North America	HIST 32 U.S. Women's History	POLI 12 Introduction to California State and Local Government
CMST 11 Intercultural Communication	HUMN 10 American Arts and Ideas	POLI 26 Introduction to Gender, Sexuality, and Politics
ECE 79 Teaching in a Diverse Society	MUS 3 World Music	PSYC 21 Introduction to Cross-Cultural Psychology
ENG 44 Literature of the American West	MUS 4 Jazz in American Culture	SOC 3 Introduction to Race and Ethnicity
ETHS 5 Introduction to Cross-Cultural Psychology	MUS 5 American Cultures in Music	THEA 4 American Cultures in Theater
ETHS 6 Introduction to Race and Ethnicity	MUS 13 History of Rock & Roll	WMST 1 Introduction to Women's Studies
HIST 14 History and American Cultures of California	PCN 3 Theories & Concepts of Counseling: An Introduction	

MP. Mathematics Proficiency (proficiency in Mathematics may be met in one of the following ways)

1. Submit Documentation showing completion of Algebra 2 or Integrated Math 3 in High School with a 'C' or higher, an AP score of 3 or higher, an IB score of 4 or higher, or a CLEP score of 50 or higher.
2. Complete one of the mathematics courses listed below at Las Positas College (with a grade of 'C' or higher or 'P').
3. Submit Documentation showing completion of one of the mathematics courses listed below (or equivalent) at another institution (with a grade of 'C' or higher or 'P').

CS 17 Discrete Mathematical Structures	MATH 27 Number Systems for Educators	MATH 50 Intermediate Algebra for SLAM
MATH 1 Calculus I	MATH 30 College Algebra for STEM	MATH 53B Technical Intermediate Algebra for Welding B
MATH 2 Calculus II	MATH 33 Finite Mathematics	MATH 55 Intermediate Algebra for BSTEM
MATH 3 Multivariable Calculus	MATH 34 Calculus for Business and Social Sciences	NMAT 250 Intermediate Algebra for SLAM
MATH 5 Ordinary Differential Equations	MATH 39 Trigonometry	NMAT 255 Intermediate Algebra for BSTEM
MATH 7 Elementary Linear Algebra	MATH 40 Statistics and Probability	
MATH 10 Discrete Mathematical Structures	MATH 47 Mathematics for Liberal Arts	

Graduation Requirements

1. Select a major and complete all major requirements plus GE and electives to total 60 or more units.
2. Complete a minimum of 60 units with a cumulative grade point average of **2.0 or better**.
3. Complete a minimum of 12 units at Las Positas College.
4. Complete all General Education (GE) Requirements for the Associate of Arts Degree, IGETC (for CSU), or CSU GE-B.
5. All courses required for the Major must be completed with a 'C' or higher or 'P.'

Please note that Las Positas and Chabot College DO NOT share AA or AS patterns. If you are interested in taking a course at Chabot College please be sure to see a counselor.

General Education Pattern for Associate of Arts (AA) Degree

- Courses may be listed in more than one area but will NOT be certified more than once, unless otherwise stated.
- For a course to meet an AA requirement, the course must be on the AA pattern during the academic year it is taken.

Area I. Language and Rationality (at least 9 units required with at least 1 course each from English Composition, Communication and Analytical Thinking, and Writing and Critical Thinking)		
I.A - English Composition (at least 3 units required) Complete with a grade of 'C' or higher or 'P'		
ENG 1A Critical Reading and Composition	ENG 1AEX Critical Reading and Composition Expanded	ESL 1A Critical Reading and Composition for ESL
I.B - Communication and Analytical Thinking (at least 3 units required)		
ASL 1A American Sign Language I ASL 1B American Sign Language II BUSN 33 Personal Financial Management and Planning BUSN 48 Human Relations in Organizations BUSN 52 Business Communications CIS 7 Introduction to Programming Concepts & Methodologies CIS 43 Professional Communications CIS 50 Introduction to Computing Information Technology CMST 1 Fundamentals of Public Speaking CMST 2 Oral Interpretation of Literature CMST 4 Introduction to Communication Studies CMST 10 Interpersonal Communication CMST 46 Argumentation and Debate CMST 48 Activities in Forensics CNT 43 Professional Communications CS 1 Computing Fundamentals I	CS 17 Discrete Mathematical Structures CS 43 Professional Communications FREN 1A Beginning French FREN 1B Elementary French JAMS 11 Introduction to Reporting & Newswriting MATH 1 Calculus I MATH 2 Calculus II MATH 3 Multivariable Calculus MATH 5 Ordinary Differential Equations MATH 7 Elementary Linear Algebra MATH 10 Discrete Mathematical Structures MATH 27 Number Systems for Educators MATH 30 College Algebra for STEM MATH 33 Finite Mathematics MATH 34 Calculus for Business and Social Sciences MATH 39 Trigonometry	MATH 40 Statistics and Probability MATH 47 Mathematics for Liberal Arts MATH 50 Intermediate Algebra for SLAM MATH 53A Technical Intermediate Algebra for Welding A MATH 53B Technical Intermediate Algebra for Welding B MATH 55 Intermediate Algebra for BSTEM PHIL 6 Introduction to Logic PHIL 8 Logic and Argumentation SPAN 1A Beginning Spanish SPAN 1B Elementary Spanish SPAN 21 Spanish for Bilingual Spanish Speakers I SPAN 22 Spanish for Bilingual Spanish Speakers II SPAN 23 Introduction to Hispanic Literature THEA 3A Beginning Improvisation THEA 25 Fundamentals of Stage Speech
I.C - Writing and Critical Thinking (at least 3 units required)		
CMST 46 Argumentation and Debate ENG 4 Critical Thinking and Writing About Literature ENG 7 Critical Thinking and Writing Across Disciplines	PHIL 6 Introduction to Logic PHIL 8 Logic and Argumentation SPAN 23 Introduction to Hispanic Literature	THEA 53 Script Analysis
Area II. Natural Sciences (at least 3 units required)		
ANTR 1 Biological Anthropology ANTR 1L Biological Anthropology Lab ANTR 2L Archaeology Field Lab ANTR 13 Introduction to Forensic Anthropology ASTR 10 Introduction to Astronomy: The Solar System ASTR 20 Introduction to Astronomy: Stars and the Universe ASTR 30L Introduction to Astronomy Lab BIO 1A General Botany BIO 1B General Zoology BIO 1C Cell and Molecular Biology BIO 7A Human Anatomy BIO 7B Human Physiology BIO 7C Microbiology BIO 10 Introduction to the Science of Biology BIO 20 Contemporary Human Biology BIO 30 Introduction to College Biology BIO 40 Humans and the Environment	BIO 50 Anatomy and Physiology BIO 60 Marine Biology BIO 70 Field Biology CHEM 1A General College Chemistry I CHEM 1B General College Chemistry II CHEM 12A Organic Chemistry I CHEM 12B Organic Chemistry II CHEM 30A Introductory and Applied Chemistry I CHEM 30B Introductory and Applied Chemistry II CHEM 31 Introduction to College Chemistry EVST 5 Energy and Sustainability GEOG 1 Introduction to Physical Geography GEOG 1L Introduction to Physical Geography Laboratory GEOG 8 Introduction to Atmospheric Science GEOG 12 Geography of California GEOG 15 Introduction to GIS GEOL 1 Physical Geology	GEOL 1L Physical Geology Laboratory GEOL 2 Historical Geology with Lab GEOL 5 Environmental Geology: Hazards & Disasters GEOL 7 Environmental Geology: Resources, Use Impact & Pollution GEOL 12 Introduction to Oceanography GEOL 12L Intro to Oceanography Laboratory GEOL 20 Earth Science for Educators PHYS 1A General Physics I PHYS 1B General Physics II PHYS 1C General Physics III PHYS 1D General Physics IV PHYS 2A Introduction to Physics I PHYS 2B Introduction to Physics II PHYS 10 Descriptive Physics PHYS 10L Descriptive Physics Lab PSYC 4 Brain, Mind and Behavior
Area III. Humanities (at least 3 units required)		
ASL 2A American Sign Language III ASL 2B American Sign Language IV ARHS 1 Introduction to Art History ARHS 2 Art of the Ancient Americas ARHS 3 Arts of Africa, Oceania, & Indigenous North Americas ARHS 4 Western Art History - Ancient to Medieval ARHS 5 Western Art History - Renaissance to Contemporary ARHS 7 Modern Art History ARHS 8 Asian Art History ARTS 2A Introduction to Drawing ARTS 3A Figure and Composition I ARTS 4A Introduction to Ceramics ARTS 7A Introduction to Watercolor Painting ARTS 12A Oil/Acrylic Painting: Beginning I ARTS 23 2-D Design CMST 2 Oral Interpretation of Literature CMST 5 Readers Theater CMST 11 Intercultural Communication ECE 61 Literature for the Young Child ENG 4 Critical Thinking and Writing About Literature ENG 7 Critical Thinking and Writing Across Disciplines ENG 11 Introduction to Creative Writing ENG 12A Craft of Writing Fiction ENG 12B Craft of Writing Fiction: Intermediate ENG 12C Craft of Writing Fiction: Advanced ENG 13A The Craft of Writing Poetry: Beginning ENG 13B The Craft of Writing Poetry: Intermediate ENG 20 Studies in Shakespeare ENG 32 U.S. Women's Literature ENG 35 Modern American Literature ENG 41 Modern World Literature ENG 42 Literature of the African Diaspora in America ENG 44 Literature of the American West ENG 45 Studies in Fiction FREN 2A Intermediate French I FREN 2B Intermediate French II	GDDM 3 The History of Modern Design GDDM 70 Photoshop and Lightroom for Photographers HIST 1 Western Civilization to 1600 HIST 2 Western Civilization since 1600 HIST 3 World History to 1500 HIST 4 World History since 1500 HIST 7 US History Through Reconstruction HIST 8 US History Post-Reconstruction HIST 14 History and American Cultures of California HIST 25 American Indian History HIST 28 History of the American West HIST 32 U.S. Women's History HUMN 2 Introduction to Film Studies HUMN 3 Introduction to Humanities HUMN 4 Global Cinemas HUMN 6 Nature and Culture HUMN 10 American Arts and Ideas HUMN 11 Culture and the Arts I: Ancient World to Renaissance HUMN 12 Culture and the Arts II: The Modern World HUMN 28 World Mythology MUS 1 Introduction to Music MUS 3 World Music MUS 4 Jazz in American Culture MUS 5 American Cultures in Music MUS 6 Basic Music Skills MUS 8A Music Theory and Musicianship 1 MUS 8B Music Theory and Musicianship 2 MUS 12 Wind Ensemble MUS 13 History of Rock & Roll MUS 14 Jazz Workshop MUS 19 Studies in Music Composition MUS 20A Elementary Guitar MUS 21A Beginning Piano MUS 23A Elementary Voice I MUS 34 Music in Film MUS 37 Music Industry Career Development	MUS 38 Applied Lessons MUS 44 Concert Choir MUS 45 Chamber Choir MUS 46 Vocal Jazz Ensemble PHIL 1 God, Nature, Human Nature PHIL 1H Honors Philosophy 1: God, Nature, Human Nat. PHIL 2 Ethics PHIL 2H Honors Philosophy 2: Ethics PHIL 3 Aesthetics PHIL 4 Intro to Philosophy: Knowledge PHIL 5 Feminist Philosophy PHIL 6 Introduction to Logic PHIL 8 Logic and Argumentation PHTO 67 History of Photography PHTO 70 Photoshop and Lightroom for Photographers RELS 1 Religions of the World RELS 2 Bible: History and Literature RELS 3 Intro to Women's Spirituality RELS 11 The Nature of Islam SPAN 2A Intermediate Spanish I SPAN 2B Intermediate Spanish II SPAN 21 Spanish for Bilingual Spanish Speakers I SPAN 22 Spanish for Bilingual Spanish Speakers II SPAN 23 Introduction to Hispanic Literature THEA 1A Theory/Practice of Acting I THEA 1B Theory/Practice of Acting II THEA 4 American Cultures in Theater THEA 5 Theater for Young Audiences THEA 10 Introduction to Dramatic Arts THEA 11 Stage to Screen THEA 12 Film as Art & Communication THEA 14 Bay Area Theater THEA 52 Introduction to Design WLDLT 71 Welding for the Arts



2021-2022 Degrees and Certificates

- Associate of Arts (AA)
- Associate of Science (AS)
- Associate in Arts for Transfer (AAT)
- Associate in Science for Transfer (AST)

- CA Certificate of Achievement
- § Certificate of Accomplishment - not transcribed
- CP Certificate of Competency - noncredit
- CL Certificate of Completion - noncredit

* Career Technical Education (CTE) - occupational programs designed for job entry; some courses are transferable to 4-year institutions

Administration of Justice			
Administration of Justice*	AA	AS-T	
Anthropology			
Anthropology		AA-T	
Apprenticeship Ironworkers			
Advanced Shop Ironworkers Apprenticeship*			CA
Basic Shop Ironworkers Apprenticeship*			CA
Elementary Shop Ironworkers Apprenticeship*			CA
Intermediate Shop Ironworkers Apprenticeship*			CA
Shop Ironworkers Apprenticeship*	AS		
Art			
Art: Emphasis in Painting	AA		
Studio Arts		AA-T	
Art History			
Art History		AA-T	
Automotive Technology			
Automotive Advanced Smog Technician*			CL
Automotive Alternative Fuels/Hybrid Technology*	AS		CA
Automotive Basics*			CL
Automotive Chassis*			CA CL
Automotive Drivability*			CA
Automotive Electronics Technology*	AS		
Automotive Light Duty Diesel*	AS		CA
Automotive Master*	AS		CA
Automotive Mechanical*			CA CL
Automotive Smog*			CL
Automotive Smog Technician*	AS		CA
Automotive Summer Camp*			CL
Concepts of Automotive Body Systems*			CL
Concepts of Automotive Chassis*			CL
Concepts of Automotive Know How*			CL
Concepts of Automotive Mechanical*			CL
Concepts of Automotive Powertrain*			CL
Biological Sciences			
Biology	AA	AS-T	
Biology: Allied Health	AA		
Biology UC Pathway	AS		CA
Computational Biology*	AA		CA
Business			
Accounting Technician*			CA
Bookkeeping*			CA
Business*	AS		
Business Administration*	AA	AS-T	
Business Entrepreneurship*	AA		CA
Business Workforce Proficiency*			CA
Customer Service*			CL
Retail Management (WAFC)*			CA
Small Business Management*			CL
Supervisory Management*			CA
Chemistry			
Chemistry	AS		
Chemistry Education	AS		
Communication Studies			
Communication Studies		AA-T	

Computer Information Systems			
Administrative Assistant*	AA		CA
Administrative Medical Assistant*			CA
Cloud Computing*			CA
Computer Applications Software*			CA
Computer Information Systems*	AA		
Computer Information Technologist*	AS		
Data Analytics*			CA
Project Management*			CA
Web Development*			CA
Computer Networking Technology			
Cybersecurity and Network Administration*	AS		
Cybersecurity Professional*			CA
IT Support Professional*			CA
Network Support Professional*			CA
Computer Science			
Artificial Intelligence*			CA
Computer Programming*			CA
Computer Programming for the Web*			CA
Computer Science	AS		
Management Information Systems*			CA
Red Hat Administration*			CA
Early Care and Education			
Associate Teacher*			CA
Child and Adolescent Development*		AA-T	
Early Childhood Development*	AA		CA
Early Childhood Education*		AS-T	
Early Childhood Intervention*	AA		
Early Childhood Intervention Assistant*			CA
Economics			
Economics		AA-T	
Emergency Medical Services			
Emergency Medical Services EMT-Paramedic*	AS		CA
Emergency Medical Technologies*			CA
Emergency Medical Responder*			§
Engineering			
Civil/Mechanical Engineering	AS		CA
Electrical Engineering	AS		CA
Electrical Engineering UC Pathway	AS		CA
Engineering	AS		CA
Engineering Technology*	AS		CA
Mechanical Engineering UC Pathway	AS		CA
Software Engineering	AS		CA
English			
Creative Writing			CA
English	AA	AA-T	
English as a Second Language			
Advanced ESL Communication Studies*			CL
ESL College Grammar Pathway			CP
ESL College Reading and Writing Pathway			CP
Environmental Science			
Environmental Science	AS		
Environmental Studies			
Environmental Studies	AA		



Film Studies			
Film Studies	AA	CA	
Fire Service Technology			
Company Officer*		CA	
Fire Academy - Fire Suppression*		CA	
Fire Prevention*		CA	
Fire Service Technology*	AS	CA	
Geography			
Geography		AA-T	
Geology			
Geology		AS-T	CA
Geology Major		CA	
Global Studies			
Global Studies		AA-T	
Graphic Arts & Digital Media			
Digital Illustration*		CA	
Graphic Design*	AA	CA	
Print Design*		CA	
Web & Interaction Design*		CA	
Health			
Public Health Science		AS-T	
History			
History		AA-T	
Horticulture			
Horticulture*	AS		CL
Landscape Design*		CA	
Landscape Maintenance and Construction*		CA	
Nursery, Greenhouse, and Grower Operations*		CA	
Ornamental Horticulture*		CA	
Humanities			
Humanities	AA	CA	
Interior Design			
Interior Design	AS	CA	
Kinesiology			
Athletic Training/Sports Medicine*		CA	
Fitness Trainer*		CA	
Kinesiology		AA-T	
Lesbian, Gay, Bisexual, Transgender, and Queer Studies			
Social Justice Studies: LGBTQ Studies		AA-T	
Liberal Arts and Sciences			
Arts and Humanities	AA		
Business	AA		
Computer Studies	AA		
Language Arts and Communication	AA		
Mathematics and Science	AA		
Social and Behavioral Sciences	AA		
Library Studies			
Basic Research Skills			CL
Marketing			
Marketing*	AA		
Retailing*		CA	
Mass Communications			
Journalism*		AA-T	CA

Journalism and Media Studies	AA			
Mathematics				
College Mathematics Pathway				CP
College Mathematics Support				CP
Foundational Mathematics Pathway				CP
Foundational Mathematics Support				CP
Math Jam Tutor Pathway				CL
Mathematics		AS-T		
Music				
Commercial Music: Music Business*			CA	
Commercial Music: Music Technology Fundamentals*			CA	
Commercial Music: Piano Teaching Fundamentals*			CA	
Commercial Music: Scoring for Film and Multimedia*			CA	
Commercial Music: Teaching Beginning Piano*			CA	
Commercial Music: Teaching Intermediate Piano*			CA	
Jazz Studies			CA	
Music	AA	AA-T		
Nutrition				
Nutrition and Dietetics		AS-T		
Occupational Safety and Health				
Occupational Safety and Health*	AS		CA	
Occupational Safety*			CA	
Philosophy				
Philosophy		AA-T		
Photography				
Photography*	AA		CA	
Physics				
Physics	AS			
Political Science				
Political Science		AA-T		
Psychology				
Psychology		AA-T		
Psychology-Counseling				
Social Work and Human Services*		AA-T		
Sociology				
Sociology		AA-T		
Spanish				
Spanish		AA-T	CA	
Theater Arts				
Acting*			CA	
Actors Conservatory*			CA	
Musical Theater			CA	
Technical Theater*			CA	
Theater Arts	AA	AA-T		
University Transfer				
CSU General Education Breadth			CA	
IGETC (Intersegmental General Education Curriculum)			CA	
Viticulture & Winery Technology				
Enology*	AS		CA	
Viticulture*	AS		CA	
Wine Hospitality*			CA	
Welding Technology				
Welding Technology*	AS		CA	

If you have any questions regarding programs of study, please be sure to see a counselor.

Assessment of Documentation, Portfolio, or Credentials

Students who have achieved elsewhere an equivalent knowledge, understanding and experience to that required by regular college courses may receive units of credit based on successful completion of a comprehensive assessment of documentation, credentials, or an assessment designed and approved by the College discipline faculty. A student may petition for courses available for prior learning assessment publicly listed on the College website.

Credit-by-Examination (Individual Student Application)

Students who have achieved elsewhere an equivalent knowledge, understanding and experience to that required by regular college courses may receive units of credit based on successful completion of a comprehensive and searching course examination approved by the College discipline faculty. Students may apply individually for Credit-by-Examination for any course offered in the Catalog. In addition, the Credit-by-Examination process may also be used to provide credit for completion of certain coursework at the high school level, where deemed appropriate by the majority of faculty in the discipline. (See the section on “High School/ ROP/Adult School Articulation” in this Catalog).

Advanced Placement (AP) Examinations

Las Positas College grants academic credit for successful completion of examinations of the College Board’s Advanced Placement (AP) Program. Credit awarded based on passing AP scores of 3 or higher may be applied differently for the AA/AS degree and for transfer; therefore, students are advised to consult with a counselor for information on how their AP scores will be applied based on their educational goals. Courses deemed equivalent to AP exams as determined by LPC faculty (see chart) may be used to clear pre-requisites as appropriate – see a counselor for details. Students may not receive duplicate credit for AP exams and the equivalent courses taken at the college.

The Advanced Placement Exams (AP) chart displays how credit is awarded for the following:

- Las Positas College AA/AS degree – Las Positas College AA/AS General Education pattern area and units, elective units, and course equivalency.
- CSU General Education-Breadth pattern area and units toward CSU transfer admission.
- IGETC (Intersegmental General Education Transfer Curriculum) – GE pattern area for CSU and/or UC and units toward CSU and UC transfer admission.

In order to receive academic credit toward the AA/AS degree and/ or CSU GE Breadth/IGETC certification for AP exams, students must submit the official AP score report from the College Board. to the Admissions and Records Office and request the score report to be scanned into their student records. The scanning request may be initiated by meeting with an academic counselor. In cases where the AP exams are not listed on the AP Chart or do not earn credit, students may petition the academic discipline for consideration of credit.

International Baccalaureate (IB) Examinations

Las Positas College grants academic credit for successful completion of examinations of the International Baccalaureate (IB) Program. Credit awarded based on passing IB scores may be applied differently for the AA/AS degree and for transfer; therefore, students are advised to consult with a counselor for information on how their IB scores will be applied based on their educational goals. Students may not receive duplicate credit for IB exams and the equivalent courses taken at the college.

The International Baccalaureate (IB) Examinations chart displays how credit is awarded for the following:

- Las Positas College AA/AS degree – Las Positas College AA/AS General Education pattern area and units, and elective units.
- CSU General Education-Breadth pattern area and units toward CSU transfer admission.
- IGETC (Intersegmental General Education Transfer Curriculum) – GE pattern area for CSU and/or UC and units toward CSU and UC transfer admission.

In order to receive academic credit toward the AA/AS degree and/ or CSU GE Breadth/IGETC certification for IB exams, students must submit the official IB score report to the Admissions and Records Office and request the score report to be scanned into their student records. The scanning request may be initiated by meeting with an academic counselor. In cases where the IB exams are not listed on the IB Chart or do not earn credit, students may petition the academic discipline for consideration of credit.

College-Level Examination Program (CLEP)

Las Positas College grants academic credit for successful completion of examinations of the College Board’s College-Level Examination Program (CLEP). Credit awarded based on passing CLEP scores may be applied differently for the AA/AS degree and for transfer; therefore, students are advised to consult with a counselor for information on how their CLEP scores will be applied based on their educational goals. Students may not receive duplicate credit for CLEP exams and the equivalent courses taken at the college.

The College-Level Examination Program (CLEP) chart displays how credit is awarded for the following:

- Las Positas College AA/AS degree – Las Positas College AA/AS General Education pattern area and units, and elective units.
- CSU General Education-Breadth pattern area and units toward CSU transfer admission.

In order to receive academic credit toward the AA/AS degree and/ or CSU GE Breadth certification for CLEP exams, students must submit the official CLEP score report from the College Board to the Admissions and Records Office and request the score report to be scanned into their student records. The scanning request may be initiated by meeting with an academic counselor. In cases where the CLEP exams are not listed on the CLEP Chart or do not earn credit, students may petition the academic discipline for consideration of credit.

PROGRAMS OF STUDY

Las Positas College is authorized by the Board of Governors of the California Community Colleges to confer the Associate Degree, Associate Degree for Transfer, Certificate of Achievement, Certificate of Accomplishment, Certificate of Competency and Certificate of Completion upon students who complete the necessary requirements. For a list of all Degree and Certificate Programs see the “Degree and Certificate” chart in this Catalog. See an academic counselor for further information. Grades earned in non-degree applicable courses (numbered 100-299) will not be used in calculating a student’s degree applicable grade point average.

Associate Degree

Las Positas College offers the Associate Degree. These degrees include Career Technical Education programs designed to prepare for direct job entry, Transfer Preparation programs designed to prepare students for transfer to a University in baccalaureate program, and Local programs designed as a record of academic achievement. These consist of the Associate of Arts (AA) Degree and Associate of Science (AS) Degree. The AS Degree is primarily for any Science, Technology, Engineering, or Mathematics (STEM) field and Career Technical Education programs, and the AA Degree is primarily for all other disciplines.

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. Within each AA and AS Degree, there is a required general education component. General Education courses are grouped into several broad areas and are designed to cultivate intellect and imagination and to broaden awareness of the relationship and interdependence of ideas and disciplines. Students may elect to earn the degree following the CSU GE-B or IGETC (for CSU) pattern if they so choose, but this may require the student to take more than 60 units to earn for degree. All courses for the major or area of emphasis must be completed with a C or P.

Associate Degree for Transfer (AD-T)

Las Positas College offers the Associate Degree for Transfer (AD-T) to the CSU. These consist of the Associate in Arts for Transfer (AA-T) Degree and Associate in Science for Transfer (AS-T) Degree. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. Students who are awarded an AA-T Degree or AS-T Degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses. In addition to the guaranteed admission, students will be given a special GPA advantage. Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units for programs deemed similar. To view the most current list of Las Positas

College Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to www.sb1440.org. Current and prospective students are encouraged to meet with a Counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

The Associate Degree for Transfer is conferred upon those students who complete the 60 semester units of the degree pattern that are eligible for transfer to the California State University with a grade-point average of 2.0 or better of which 12 units must be earned at Las Positas College. Within each AD-T Degree, there is a required general education component (see the Intersegmental General Education Transfer Curriculum (IGETC) and California State University General Education Breadth (CSU GE-B) charts in this Catalog). To earn an AD-T, a student is required to complete either the CSU GE-B Pattern, or the IGETC (for CSU) Pattern. In some special cases the IGETC for STEM (for CSU) or the CSU GE-B for STEM Pattern may be required instead. AD-Ts also require the students must earn a C or better in all courses required for the major or area of emphasis. All courses for the major or area of emphasis must be completed with a “C” (or “P”).

Certificate of Achievement

Las Positas College offers the Certificate of Achievement. These certificates include Career Technical Education programs designed to prepare for direct job entry, Transfer Preparation programs designed to prepare students for transfer to a University in baccalaureate program, and Local programs designed to as a record of academic achievement.

The Certificate of Achievement conferred upon those students who successfully complete the required courses for the certificate with a grade point average of 2.0 or higher and complete at least (50%) of the required program at Las Positas College (or Chabot College).

Certificate of Accomplishment

Las Positas College offers the Certificate of Accomplishment. The courses of study within these certificates includes Career Technical Education programs designed to prepare for direct job entry and Local programs designed to as a record of academic achievement. Individual courses will appear on a student’s transcript. The name of the certificate and completion of industry-based professional development will also be noted.

The Certificate of Accomplishment is awarded those students who successfully complete the required courses for the certificate with a grade point average of 2.0 or higher and completes at least 50% of the required program at Las Positas College.

Certificate of Competency

A Certificate of Competency is a noncredit certificate intended for students who do not need credit for transfer or for employment but wish to improve their basic skills in English or Mathematics or learn English as a second language.

The Certificate of Competency is awarded those students who successfully complete the required courses for the certificate.

Certificate of Completion

A Certificate of Completion is a noncredit certificate intended for students who do not need credit for transfer but who wish to obtain

the knowledge and preparation of skills needed for entry level positions in the workforce or obtain short-term vocational skills needed for immediate employment.

The Certificate of Completion is awarded those students who successfully complete the required courses for the certificate.

General Education Reciprocity Program with Community Colleges

The Chabot-Las Positas Community College District has entered into a mutual agreement with eight other local community colleges to accept the General Education and graduation proficiency of these colleges as completed for Chabot College and Las Positas College. The other participating colleges are:

DeAnza College (Cupertino), Evergreen Valley College (San Jose), Foothill College (Los Altos Hills), Gavilan College (Gilroy), Mission College (Santa Clara), Ohlone College (Fremont), San Jose City College (San Jose), and West Valley College (Saratoga).

Effective fall 2007, students who obtain an official General Education Reciprocity Program Certification (which verifies completion of Associate Degree General Education and graduation proficiency) or complete an associate degree at any one of the participating colleges will have both their General Education course work and graduation proficiency accepted as completing Chabot College's and Las Positas College's General Education and graduation proficiency for the Associate of Arts and/or the Associate of Science Degree.

No additional general education course work will be required if the certification is officially presented. Students will still be required to complete all courses and prerequisites needed for a major. The agreement also means that the other participating colleges will accept the General Education and graduation proficiency pattern of Chabot College and Las Positas College if an official General Education Reciprocity Program Certification is presented at any of the member colleges. Students must request certification in the Counseling Department. This agreement is reviewed periodically.

Petition to Graduate

At least one semester before the scheduled graduation ceremony, students should schedule an appointment with a counselor to check their progress in fulfilling the graduation requirements and arrange to complete the appropriate application for graduation. Official transcripts from other colleges must be submitted to the Admissions and Records Office, for coursework to be considered in meeting graduation requirements at Las Positas College. For graduation purposes only, total attempted and completed units transferred from other colleges will be included in determining a student's overall cumulative grade-point average (GPA).

Students may receive degrees or certificates at the end of any semester or the end of summer session. Students should petition no later than the tenth instructional week of the semester in which they plan to complete the requirements. Deadline dates are listed in the College Calendar (printed in the Class Schedule). "Request for Degree or Certificate" forms are available at the Admissions and Records Office or on the Las Positas College website.

Commencement Exercises are held in late May or early June. All students receiving degrees and/or certificates are cordially invited to participate.

<p>Area A. English Language Communication and Critical Thinking (at least 9 units required with at least 1 course each from Oral Communication, Written Communication, and Critical Thinking) <i>All courses must be completed with a grade of 'C' or better</i></p>		
<p>A1 - Oral Communication (at least 3 units required)</p>		
CMST 1 Fundamentals of Public Speaking	CMST 10 Interpersonal Communication (F16)	CMST 46 Argumentation and Debate
<p>A2 - Written Communication (at least 3 units required)</p>		
ENG 1A Critical Reading and Composition	ENG 1AEX Critical Reading and Composition Expanded	
<p>A3 - Critical Thinking (at least 3 units required)</p>		
CMST 46 Argumentation and Debate	ENG 7 Critical Thinking and Writing Across Disciplines	PHIL 8 Logic and Argumentation
ENG 4 Critical Thinking and Writing About Literature	PHIL 6 Introduction to Logic	THEA 53 Script Analysis (F20)
<p>Area B. Scientific Inquiry and Quantitative Reasoning (at least 9 units required with at least 1 course each from Physical Science, Life Science (at least 1 to contain a laboratory component), and Mathematics/Quantitative Reasoning)</p>		
<p>B1 - Physical Science (at least 3 units required)</p>		
ASTR 10 Introduction to Astronomy: The Solar System	EVST 5 Energy and Sustainability	GEOL 20 Earth Science for Educators ^L
ASTR 20 Introduction to Astronomy: Stars and the Universe	GEOG 1 Introduction to Physical Geography	PHYS 1A General Physics I ^L
CHEM 1A General College Chemistry I ^L	GEOG 8 Introduction to Atmospheric Science	PHYS 1B General Physics II ^L
CHEM 1B General College Chemistry II ^L	GEOG 12 Geography of California (F16)	PHYS 1C General Physics III ^L
CHEM 12A Organic Chemistry I ^L	GEOL 1 Physical Geology	PHYS 1D General Physics IV ^L
CHEM 12B Organic Chemistry II ^L	GEOL 2 Historical Geology with Lab ^L	PHYS 2A Introduction to Physics I ^L
CHEM 30A Intro and Applied Chemistry I ^L	GEOL 5 Environmental Geology: Hazards & Disasters	PHYS 2B Introduction to Physics II ^L
CHEM 30B Introductory and Applied Chemistry II ^L	GEOL 7 Environmental Geology: Resources, Use Impact & Pollution	PHYS 10 Descriptive Physics
CHEM 31 Intro to College Chemistry ^L	GEOL 12 Introduction to Oceanography	
<p>B2 - Life Science (at least 3 units required)</p>		
ANTR 1 Biological Anthropology	BIO 7B Human Physiology ^L	BIO 50 Anatomy and Physiology ^L
ANTR 13 Introduction to Forensic Anthropology	BIO 7C Microbiology	BIO 60 Marine Biology ^L
BIO 1A General Botany ^L	BIO 10 Introduction to the Science of Biology ^L	BIO 70 Field Biology ^L
BIO 1B General Zoology ^L	BIO 20 Contemporary Human Biology	PSYC 4 Brain, Mind and Behavior
BIO 1C Cell and Molecular Biology ^L	BIO 30 Introduction to College Biology ^L	
BIO 7A Human Anatomy ^L	BIO 40 Humans and the Environment	
<p>B3 - Laboratory Activity (at least 1 course from below or from Physical Science or Life Science marked with an ^L)</p>		
ANTR 1L Biological Anthropology Lab	GEOG 1L Introduction to Physical Geography Laboratory	PHYS 10L Descriptive Physics Lab
ANTR 2L Archaeology Field Lab	GEOL 1L Physical Geology Laboratory	
ASTR 30L Introduction to Astronomy Lab	GEOL 12L Intro to Oceanography Laboratory	
<p>B4 - Mathematics/Quantitative Reasoning (at least 3 units required) <i>Must be completed with a grade of 'C' or better</i></p>		
BUSN 33 Personal Financial Management & Planning	MATH 5 Ordinary Differential Equations	MATH 33 Finite Mathematics
CS 17 Discrete Mathematical Structures	MATH 7 Elementary Linear Algebra	MATH 34 Calculus for Business and Social Sciences
MATH 1 Calculus I	MATH 10 Discrete Mathematical Structures	MATH 39 Trigonometry
MATH 2 Calculus II	MATH 27 Number Systems for Educators	MATH 40 Statistics and Probability
MATH 3 Multivariable Calculus	MATH 30 College Algebra for STEM	MATH 47 Mathematics for Liberal Arts
<p>Area C. Arts and Humanities (at least 9 units required with at least 1 course each from Arts and Humanities)</p>		
<p>C1 - Arts (at least 3 units required)</p>		
ARHS 1 Introduction to Art History	HUMN 2 Introduction to Film Studies	PHTO 67 History of Photography
ARHS 2 Art of the Ancient Americas	HUMN 4 Global Cinemas	THEA 1A Theory/Practice of Acting I
ARHS 3 Arts of Africa, Oceania, and Indigenous North America	HUMN 11 Culture and the Arts I: Ancient World to Renaissance	THEA 4 American Cultures in Theater
ARHS 4 Western Art History - Ancient to Medieval	HUMN 12 Culture and the Arts II: The Modern World	THEA 10 Introduction to Dramatic Arts
ARHS 5 Western Art History - Renaissance to Contemporary	MUS 1 Introduction to Music	THEA 11 Stage to Screen
ARHS 7 Modern Art History	MUS 3 World Music	THEA 12 Film as Art & Communication
ARHS 8 Asian Art History	MUS 4 Jazz in American Culture	THEA 14 Bay Area Theater
ARTS 2A Introduction to Drawing	MUS 5 American Cultures in Music	THEA 25 Fundamentals of Stage Speech
ARTS 3A Figure and Composition I	MUS 6 Basic Music Skills	THEA 51 Introduction to Costume Design
ARTS 4 Introduction to Ceramics (F19)	MUS 8A Music Theory and Musicianship 1	THEA 53 Script Analysis (F20)
ARTS 7A Introduction to Watercolor Painting (F19)	MUS 8B Music Theory and Musicianship 2	WLDT 71 Welding for the Arts
ARTS 12A Oil/Acrylic Painting; Beginning I (F19)	MUS 13 History of Rock & Roll	
GDDM 3 The History of Modern Design	MUS 34 Music in Film	

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California State University General Education-Breadth (CSU GE-B)

C2 - Humanities (at least 3 units required)

ASL 2A American Sign Language III	FREN 2A Intermediate French I	MUS 34 Music in Film
ASL 2B American Sign Language IV	FREN 2B Intermediate French II	PHIL 1 God, Nature, Human Nature
CMST 2 Oral Interpretation of Literature	HIST 1 Western Civilization to 1600	PHIL 1H Honors Phil. 1: God, Nature, Human Nature
CMST 5 Readers Theater	HIST 2 Western Civilization since 1600	PHIL 2 Ethics
ECE 61 Literature for the Young Child (F16)	HIST 3 World History to 1500	PHIL 2H Honors Philosophy 2: Ethics
ENG 4 Critical Thinking & Writing About Literature (F16)	HIST 4 World History since 1500	PHIL 3 Aesthetics
ENG 7 Critical Thinking & Writing Across Disciplines (F16)	HIST 7 US History Through Reconstruction (F15)	PHIL 4 Intro to Philosophy: Knowledge
ENG 11 Introduction to Creative Writing	HIST 8 US History Post-Reconstruction (F15)	PHIL 5 Feminist Philosophy
ENG 12A Craft of Writing Fiction	HIST 14 History and American Cultures of California (F15)	PHIL 6 Introduction to Logic (F19)
ENG 12B Craft of Writing Fiction: Intermediate	HIST 25 American Indian History (F16)	PHIL 8 Logic and Argumentation (F19)
ENG 13A The Craft of Writing Poetry: Beginning	HIST 32 U.S. Women's History (F16)	RELS 1 Religions of the World
ENG 13B The Craft of Writing Poetry: Intermediate	HUMN 2 Introduction to Film Studies	RELS 2 Bible: History and Literature
ENG 20 Studies in Shakespeare	HUMN 3 Introduction to Humanities	RELS 3 Intro to Women's Spirituality
ENG 32 U.S. Women's Literature	HUMN 4 Global Cinemas	RELS 11 The Nature of Islam
ENG 35 Modern American Literature	HUMN 6 Nature and Culture	SPAN 2A Intermediate Spanish I
ENG 41 Modern World Literature	HUMN 10 American Arts and Ideas	SPAN 2B Intermediate Spanish II
ENG 42 Literature of the African Diaspora in America	HUMN 11 Culture and the Arts I: Ancient World to Renaissance	SPAN 21 Spanish for Bilingual Spanish Speakers I (F19)
ENG 44 Literature of the American West	HUMN 12 Culture and the Arts II: The Modern World	SPAN 22 Spanish for Bilingual Spanish Speakers II
ENG 45 Studies in Fiction	HUMN 28 World Mythology	SPAN 23 Introduction to Hispanic Literature

Area D. Social and Behavioral Sciences (at least 9 units required with courses in at least 2 disciplines)

AJ 50 Intro to Admin of Justice (F12)	GEOG 2 Cultural Geography	POLI 20 Comparative Government
AJ 56 Fundamentals of Crime and Delinquency (F15)	GEOG 5 World Regional Geography	POLI 25 Introduction to Political Theory
AJ 60 Criminal Law (F12)	GEOG 12 Geography of California (F16)	POLI 26 Introduction to Gender, Sexuality & Politics
AJ 66 Juvenile Procedures (F15)	GEOG 15 Introduction to GIS	POLI 30 International Relations
AJ 78 Introduction to Probation and Parole	GS 1 Introduction to Global Studies*	PSYC 1 General Psychology
ANTR 1 Biological Anthropology	GS 2 Global Issues	PSYC 3 Introduction to Social Psychology
ANTR 2 Introduction to Archaeology	HEA 3 Women's Health (F15)	PSYC 4 Brain, Mind and Behavior
ANTR 3 Cultural Anthropology	HEA 7 Introduction to Public Health	PSYC 6 Abnormal Psychology
ANTR 4 Language and Culture	HEA 11 Health and Social Justice	PSYC 12 Life-span Psychology
ANTR 5 Cultures of the U.S. in Global Perspective	HIST 1 Western Civilization to 1600	PSYC 13 Psychology of Women
ANTR 6 Anthropology of Sex and Gender	HIST 2 Western Civilization since 1600	PSYC 15 Abnormal Child Psychology (F16)
ANTR 7 Native American Cultures of North America	HIST 3 World History to 1500	PSYC 21 Intro. to Cross-Cultural Psychology
ANTR 8 World Prehistory in Archaeological Perspective	HIST 4 World History since 1500	PSYC 25 Research Methods
ANTR 12 Magic/Religion/Witchcraft/Healing	HIST 7 US History Through Reconstruction	PSYC 27 Introduction to Cognitive Science
BUS 30 Business Ethics and Society	HIST 8 US History Post-Reconstruction	SOC 1 Principles of Sociology
CMST 4 Introduction to Communication Studies	HIST 14 History and American Cultures of California	SOC 3 Cultural and Racial Minorities
CMST 10 Interpersonal Communication (F16)	HIST 25 American Indian History	SOC 4 Marriage and Family Relations
CMST 11 Intercultural Communication (F12)	HIST 28 History of the American West	SOC 5 Introduction to Global Studies*
ECE 56 Child Growth and Development	HIST 32 U.S. Women's History	SOC 6 Social Problems
ECE 62 Child, Family and Community	MKTG 50 Introduction to Marketing	SOC 7 Sociology of Sexuality (F20)
ECE 79 Teaching in a Diverse Society	MSCM 5 Intro. to Mass Communications	SOC 11 Sociology of Gender
ECON 1 Principles of Microeconomics	MSCM 31 Introduction to Media	SOC 12 Popular Culture
ECON 2 Principles of Macroeconomics	PCN 3 Theories & Concepts of Counseling: An Introduction	SOC 13 Research Methods
ECON 5 Economic History of the U. S.	PCN 13 Multicultural Issues in Contemporary America	WMST 1 Introduction to Women's Studies
ECON 10 General Economics	POLI 7 Introduction to American Government	WMST 2 Global Perspective of Women
ENG 44 Literature of the American West	POLI 12 Introduction to California State and Local Government	* GS 1 + SOC 5 maximum credit 1 course

Area E. Lifelong Learning and Self Development (at least 3 units required) Veterans with DD214 honorable discharge receive a waiver for this area and 3 units toward CSU

BIO 55 Orientation to Health Care (F18)	DANC 6A Choreography for the Stage A	Any Kinesiology Intercollegiate Athletics Course (KIN 32A-65)*
CMST 3 Group Communication (F15)	DANC 6B Choreography for the Stage B	Any Kinesiology Activity Course (KIN AFI-ZUM1)*
CMST 10 Interpersonal Communication	ECE 54 Child Health, Safety and Nutrition	NTRN 1 Introduction to Nutrition Science
CMST 11 Intercultural Communication (F15)	ECE 56 Child Growth and Development	PCN 10 Career and Educational Planning
DANC 2A Jazz Dance Fundamentals/Beginning	FST 7 Fire Service Conditioning & Physical Agility Development	PCN 18 University Transfer Planning
DANC 2B Jazz Dance Beginning/Intermediate	HEA 1 Introduction to Personal Health	PCN 30 Student Success and the College Experience
DANC 3A Ballet Fundamentals/Beginning	HEA 3 Women's Health	PSYC 10 Psychology of Human Sexuality
DANC 4A Modern/Contemporary Dance A (F19)	KIN 22A Science of Soccer 1	PSYC 12 Life-span Psychology
DANC 4B Modern/Contemporary Dance B (F19)	KIN 24 Sports Psychology	SOC 4 Marriage and Family Relations
DANC 5A Dance Composition 5A	KIN 26 Coaching Youth Soccer	SOC 7 Sociology of Sexuality
DANC 5B Dance Composition 5B	KIN 30 Introduction to Kinesiology	* KIN 32A-ZUM1 maximum credit 2 units

American Institutions US History, Constitution, and American Ideals (CSU Graduation Requirement - NOT required to certify CSU GE-B)

Complete 1 group Up to 6 units of these courses may also be applied to GE-B requirements in Area C2 or D if applicable

Group 1

HIST 7 US History Through Reconstruction	HIST 8 US History Post-Reconstruction
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Group 2

HIST 7 US History Through Reconstruction	HIST 14 History and Amerocan Cultures of California
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Group 3

POLI 7 Introduction to American Government and at least 1 of the following:

HIST 7 US History Through Reconstruction	HIST 25 American Indian History
HIST 8 US History Post-Reconstruction	HIST 32 U.S. Women's History

FAQS: Frequency Asked Questions about CSU GE-B

Q What is the California State University General Education-Breadth (CSU GE-B)

A CSU GE-B is a general education pattern which community college transfer students can follow to fulfill lower-division general education requirements for the CSU systems.

Q Is CSU GE-B an admission requirement?

A NO. If appropriate for the major, students may complete the minimum eligibility requirements for admission to a CSU – see a counselor for details and advisement.

Q Can I use Advanced Placement (AP), International Baccalaureate (IB), and College Level Examination Program (CLEP) exams for CSU GE-B?

A YES. AP, IB, and CLEP exams may be applied to CSU GE-B with passing scores. For details, see the AP, IB, and CLEP Charts in the LPC Catalog. However, application of AP, IB, and CLEP exams to major requirements can vary at each CSU campus.

Q What is “CSU GE-B Certification” and how do I request it?

A CSU GE-B certification is the process by which the community college verifies that a student has completed all of the required coursework for the CSU GE-B pattern (39 units and partial completion is possible), which is sent directly to the transfer institution. If CSU GE-B is not certified, students may be subject to the lower-division GE requirements of the campus to which they transfer. Request a CSU GE-B Certification in the Admissions & Records Office at the end of the last semester before transferring.

Please note that Las Positas and Chabot College DO NOT share CSU GE-B or IGETC patterns. If you are interested in taking a course at Chabot College please be sure to see a counselor.

TRANSFER TO A BACCALAUREATE COLLEGE OR UNIVERSITY

Las Positas College provides the equivalent to the first and second years of a four-year college or university program. Students intending to transfer to baccalaureate colleges and universities may complete their lower division general education requirements and major field preparatory courses at Las Positas College. The Counseling Department and the Transfer Center can provide the most up-to-date transfer information, in addition to individual counseling appointments.

Students are advised to meet early and regularly with a counselor to ensure a smooth transition to the transfer institution. Counselors work with students to develop Student Educational Plans (SEPs) that map out the courses needed for successful transfer.

Students should take specific lower-division courses required for their chosen majors (also called major preparatory courses). Impacted or selective majors (those that are competitive for admission) may require all or most major preparatory courses to be complete before transfer. ASSIST* (www.assist.org) lists the articulation agreements of these major preparatory courses for the UC and CSU campuses. The lower-division major requirements may differ depending on the institution; therefore, it is important for students to review the agreements for each university considered and consult a counselor. *See ASSIST information that follows below.

3. **Electives**

Electives are additional transferable courses completed in order to meet the total number of units required to transfer.

Transferability of Courses

Students may transfer a maximum of 70 community college semester units to most California public four-year colleges or universities. Courses in excess of 70 units may still be used to meet transfer requirements. Many baccalaureate level courses offered at Las Positas College have been articulated with the University of California (UC), California State University (CSU), and a number of private institutions. ASSIST.org provides the most up-to-date lists of transferable courses. Students should visit www.assist.org at the beginning of each academic year to obtain updated information.

Course Identification Numbering System (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID – number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. However, students should always go to www.assist.org to confirm how each college’s course will be accepted at a particular four-year

Transfer Preparation

The main components of a typical transfer plan are listed below:

1. **General Education Requirements**

To earn a bachelor’s degree from the University of California (UC) or the California State University (CSU), students must complete a program of general education. The pattern for the CSU system is called CSU General Education Breadth Requirements. The Intersegmental General Education Transfer Curriculum (IGETC) is a pattern valid for both the UC and CSU systems. Some high-unit majors and certain UC campuses may have different requirements – consult a counselor for details.

2. **Lower-Division Major Requirements**

college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Students may consult the C-ID database at www.c-id.net for specific information on C-ID course designations. Counselors can always help students interpret or explain this information.

ASSIST

ASSIST (www.assist.org) is the official repository of articulation information for California public postsecondary educational institutions. ASSIST includes reports of how course credits earned at a California Community College may be applied when transferring to a public California university. Students are advised to meet with a counselor to learn how to use the information posted on ASSIST.

Guaranteed Transfer Programs

Las Positas College provides transfer students with a variety of opportunities to participate in guaranteed transfer programs. Currently, there are programs that guarantee transfer to at least 55 colleges and universities. The University of California system has a Transfer Admission Guarantee (TAG) program at the majority of its campuses. The California State University system has an Associate Degree for Transfer (ADT) program that guarantees students admission to many of its campuses, based on major and impactation status. Numerous independent and in/out-state-colleges, and universities also have Transfer Admissions Agreements (TAA) with Las Positas College.

UC Transfer Admission Guarantee (TAG)

A Transfer Admission Guarantee (TAG) is a contract that guarantees admission to a participating campus of the University of California. Students must request a TAG during the month of September prior to applying for transfer for the following Fall term. Students must also apply for admission to the university during the following November. Campuses participating in the UC TAG program include: UC Davis, UC Merced, UC Irvine, UC Riverside, UC Santa Barbara, and UC Santa Cruz.

CSU Associate Degree for Transfer (AD-T)

Las Positas is now offering associate degrees for transfer (AD-T) to the CSU system. These may include Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T) Degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T Degree are guaranteed admission with junior standing somewhere in the CSU system and are given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses. Students who have been awarded an AA-T or AS-T Degree are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units. For more information, see Associate Degree for Transfer under Programs of study on page 42.

Transfer Alliance Program (TAP)

Through this agreement with University of California, Los Angeles, students completing the LPC Honors Transfer Program by fulfilling at least 5 honors contracts in their classes, along with their IGETC requirements can apply to UCLA as TAP applicants. UCLA TAP certification is not a guaranteed admission to UCLA, but has an acceptance rate significantly higher than general transfer students without TAP. Students will need to join the LPC Honors Transfer Program to become TAP applicants. For more information on the LPC honors program visit their website at <http://www.laspositascollege.edu/honors/>.

Colleges and Universities with Transfer Admission Agreements

Additional transfer guarantee programs are available with Saint Mary's College, Santa Clara University, John F. Kennedy University, and the University of the Pacific. Las Positas College students also have opportunities for guaranteed admission programs with Arizona State University and the University of Arizona. All California Community College students also can participate in the Transfer Admission Guarantee program with select Historically Black Colleges and Universities (HBCUs). Students who complete certain academic requirements are guaranteed transfer to any of the participating HBCUs. For more information about this unique opportunity, please visit www.cccco.edu/HBCUTransfer

Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

California State University (CSU)

Admission Requirements for Transfer to CSU

To be minimally eligible for junior-level transfer to a CSU campus, students must:

- Complete 60 CSU transferable units;
- Earn a college grade point average of 2.0 or better in all transferable courses;
- Be in good standing at the last college or university attended;
- Complete at least 30 semester units of general education requirements, with grades of "C" or better. The 30 units must include all of the general education requirements in communication in the English language (English composition, oral communication, and critical thinking) and at least one course of at least 3 semester units in transferable mathematics. (See the "Las Positas College General Education Pattern" charts in this Catalog for more information.)

Note: Some competitive campuses and/or majors have additional requirements. Consult a counselor for details.

Some CSU campuses may consider students who have completed fewer than 60 units if they meet the following requirements:

- Earn a grade point average of 2.0 or better in all transferable college units completed;

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- Are in good standing at the last college or university attended;
- Meet the admission requirements for a first-time freshman or have successfully completed necessary courses to make up high school deficiencies and;
- Meet the eligibility index required of a freshman.

CSU General Education Requirements

Las Positas College offers two general education patterns which enable students to meet all of the lower-division general education requirements.

Students may complete one of the following patterns:

- Intersegmental General Education Transfer Curriculum (IGETC). See the “Intersegmental General Education Transfer Curriculum (IGETC)” chart in this Catalog.
- CSU General Education Breadth Requirements. See the “California State University General Education Breadth Requirements” chart in this Catalog.

Priority Application Filing Dates for CSU

Summer Term: Feb. 1 – 28 of that year.

Fall Semester or Quarter: Oct. 1–Nov. 30 of prior year.

Winter Quarter: June 1 – 30 of prior year.

Spring Semester or Quarter: Aug. 1 – 31 of prior year.

NOTE: Not all campuses admit students every semester/ quarter. Please visit www.calstate.edu/apply for more information.

CSU Resources

Cal State Apply – www.calstate.edu/apply – provides information regarding admission requirements, application deadlines, and specific CSU campuses.

University of California (UC)

Admission Requirements for Transfer to UC

To be minimally eligible for junior-level transfer to a UC campus, students must:

- Complete 60 UC transferable units with a GPA of at least 2.4; no more than 14 units may be taken Pass/No Pass.
- Complete the following seven-course pattern, earning a grade of C or better in each class:

English Composition (UC-E) - two transferable college courses* (3 semester units each);

Mathematical Concepts and Quantitation Reasoning (UC-M) - one transferable college course* (3 semester units);

Arts and Humanities (UC-H), Social and Behavioral Sciences (UC-B), and/or Physical and Biological Sciences (UC-S) - four transferable college courses* (3 semester units each) chosen from at least two of these subject areas.

Note: Completion of IGETC will satisfy the above seven-course pattern for UC admission, but not the 60 unit requirement. Some

competitive campuses and/or majors have additional requirements. Consult a counselor for details.

*Visit ASSIST.org for eligible courses.

UC General Education Requirements

Students may complete one of the following:

- Intersegmental General Education Transfer Curriculum (IGETC)*, See the “Intersegmental General Education Transfer Curriculum (IGETC)” chart in this Catalog.
- General education requirements of the receiving UC campus.

*UC San Diego’s Eleanor Roosevelt and Revelle Colleges and UC Berkeley Haas School of Business will NOT accept IGETC. IGETC is not advisable for some high unit majors. Consult a counselor to determine the best option.

Priority Application Filing Dates for UC

Fall Semester or Quarter: Nov. 1–30 of previous year

Winter Quarter/Spring Semester: July 1–31 of previous year

NOTE: Not all campuses admit students every semester/ quarter. Please visit www.universityofcalifornia.edu/admissions for more information.

UC Resources

The web site www.universityofcalifornia.edu/admissions provides up-to-date UC transfer admissions and application information.

Additional Transfer Information

Certification of General Education for Transfer to UC and CSU

IGETC and CSU GE Breadth certification is the process by which the community college verifies that a student has completed all the required coursework for the IGETC or CSU GE Breadth pattern. Students who transfer without certification may have to meet the local general education requirements of the university campus. Certification is not automatic and must be requested after acceptance to the university. This request should be made in the Office of Admissions and Records. The certification will be sent after final grades are posted. In addition, a Certificate of Achievement in University Transfer is available for posting to the LPC official transcript for students who complete either transfer GE pattern (IGETC or CSU GE Breadth). Additional information may be found under “University Transfer” in the academic programs section of this catalog.

Private/Independent and Out-of-State Colleges and Universities

Transfer requirements for private and out-of-state colleges and universities vary. Students should consult the transfer institution’s catalog or website. Las Positas College counselors can also advise students on independent and out-of-state college and university requirements and preparation. Recently 40 Independent Colleges

have started to accept the Associate Degree for Transfer. Please consult with a counselor to determine if the transfer institution you are planning to attend accepts the AD-T to meet transfer requirements.

Transfer Services

A variety of transfer services are coordinated and provided through the Career and Transfer Center. Transfer services include:

- Individual drop-in appointments with LPC counselors;
- Individual appointments with college and university representatives;
- Access to a library of college and university catalogs, both in print and online;
- Support completing with the Transfer Admission Guarantee application;
- Referrals to appropriate faculty and supportive services;
- Assistance with technology in the articulation of coursework (www.assist.org) and college applications;
- Transfer events, including Transfer Day;
- Workshops that assist with transfer planning, the application process, and the personal statement.

Comprehensive counseling services are available in the Counseling Department. Counselors work with students to develop Student Education Plans (SEPs), provide assistance with career and major exploration and selection. For more information, see “Counseling Services.”

KEY TO COURSE INFORMATION

Course Scheduling

Information regarding the days, hours, instructors, and rooms in which classes will be held in each semester and summer session is contained in the Class Schedule, available in the Bookstore prior to the start of each semester and summer session, and on CLASS Web, accessible at www.laspositascollege.edu.

Registration

To receive credit, students must register in a course within the officially designated time. Auditing of specific classes is not allowed (see the section on “Registration Policies” in this Catalog).

Semester Units

All courses in this Catalog are described in semester units.

Prerequisites

Many courses offered by the College require the completion of prerequisite courses. Students are advised to consult the course

- All courses taken to meet IGETC requirements must be completed with a grade of 'C' or better.
- Courses may be listed in more than one area but will NOT be certified more than once, unless otherwise stated.
- For a course to meet an IGETC requirement, the course must be on the IGETC pattern during the academic year it is taken.

Area 1. English Language Communication and Critical Thinking (at least 9 units required with at least 1 course each from Oral Communication, Written Communication, and Critical Thinking) *All courses must be completed with a grade of 'C' or better*
1A - Oral Communication (at least 3 units required)

ENG 1A Critical Reading and Composition ENG 1AEX Critical Reading and Composition Expanded

1B - Critical Thinking/English Composition (at least 3 units required)

 ENG 4 Critical Thinking and Writing About Literature PHIL 8 Logic and Argumentation
 ENG 7 Critical Thinking and Writing Across Disciplines THEA 53 Script Analysis (F20)

1C - Critical Thinking (at least 3 units required)

CMST 1 Fundamentals of Public Speaking CMST 10 Interpersonal Communication (F16) CMST 46 Argumentation and Debate

Area 2. Mathematical Concepts and Quantitative Reasoning (at least 3 units required)

2A - Mathematics (at least 3 units required)

 CS 17 Discrete Mathematical Structures MATH 5 Ordinary Differential Equations MATH 33 Finite Mathematics
 MATH 1 Calculus I MATH 7 Elementary Linear Algebra MATH 34 Calculus for Business and Social Sciences
 MATH 2 Calculus II MATH 10 Discrete Mathematical Structures MATH 40 Statistics and Probability
 MATH 3 Multivariable Calculus MATH 30 College Algebra for STEM MATH 47 Mathematics for Liberal Arts

Area 3. Arts and Humanities (at least 9 units required with at least 1 course each from Arts and Humanities)

3A - Arts (at least 3 units required)

 ARHS 1 Introduction to Art History HUMN 4 Global Cinemas MUS 13 History of Rock & Roll
 ARHS 2 Art of the Ancient Americas HUMN 11 Culture and the Arts I: Ancient World to Renaissance MUS 34 Music in Film
 ARHS 3 Arts of Africa, Oceania, and Indigenous North America HUMN 12 Culture and the Arts II: The Modern World PHTO 67 History of Photography
 ARHS 4 Western Art History - Ancient to Medieval MUS 1 Introduction to Music THEA 4 American Cultures in Theater
 ARHS 5 Western Art History - Renaissance to Contemporary MUS 3 World Music THEA 10 Introduction to Dramatic Arts
 ARHS 7 Modern Art History MUS 4 Jazz in American Culture THEA 11 Stage to Screen
 ARHS 8 Asian Art History MUS 5 American Cultures in Music THEA 12 Film as Art & Communication
 GDMM 3 The History of Modern Design MUS 8A Music Theory and Musicianship 1 THEA 14 Bay Area Theater
 HUMN 2 Introduction to Film Studies MUS 8B Music Theory and Musicianship 2 THEA 53 Script Analysis (F20)

3B - Humanities (at least 3 units required)

 ASL 2A American Sign Language III HIST 1 Western Civilization to 1600 (F15) PHIL 1 God, Nature, Human Nature
 ASL 2B American Sign Language IV HIST 2 Western Civilization since 1600 (F15) PHIL 1H Honors Phil. 1: God, Nature, Human Nature
 ENG 4 Critical Thinking & Writing About Literature (F16) HIST 3 World History to 1500 PHIL 2 Ethics
 ENG 7 Critical Thinking & Writing Across Disciplines (F16) HIST 4 World History since 1500 PHIL 2H Honors Philosophy 2: Ethics
 ENG 11 Introduction to Creative Writing HIST 7 US History Through Reconstruction (F15) PHIL 3 Aesthetics
 ENG 12A Craft of Writing Fiction HIST 8 US History Post-Reconstruction (F15) PHIL 4 Intro to Philosophy: Knowledge
 ENG 12B Craft of Writing Fiction: Intermediate HIST 14 History and American Cultures of California (F15) PHIL 5 Feminist Philosophy
 ENG 13A The Craft of Writing Poetry: Beginning HIST 25 American Indian History (F16) PHIL 6 Introduction to Logic (F19)
 ENG 13B The Craft of Writing Poetry: Intermediate HIST 32 U.S. Women's History (F16) PHIL 8 Logic and Argumentation (F19)
 ENG 20 Studies in Shakespeare HUMN 2 Introduction to Film Studies RELS 1 Religions of the World
 ENG 32 U.S. Women's Literature HUMN 3 Introduction to Humanities RELS 2 Bible: History and Literature
 ENG 35 Modern American Literature HUMN 4 Global Cinemas RELS 3 Intro to Women's Spirituality
 ENG 41 Modern World Literature HUMN 6 Nature and Culture RELS 11 The Nature of Islam
 ENG 42 Literature of the African Diaspora in America HUMN 10 American Arts and Ideas SPAN 2A Intermediate Spanish I
 ENG 44 Literature of the American West HUMN 11 Culture and the Arts I: Ancient World to Renaissance SPAN 2B Intermediate Spanish II
 ENG 45 Studies in Fiction HUMN 12 Culture and the Arts II: The Modern World SPAN 21 Spanish for Bilingual Spanish Speakers I (F19)
 FREN 2A Intermediate French I HUMN 28 World Mythology SPAN 22 Spanish for Bilingual Spanish Speakers II
 FREN 2B Intermediate French II MUS 34 Music in Film SPAN 23 Introduction to Hispanic Literature

Area 4. Social and Behavioral Sciences (at least 9 units required with courses in at least 2 disciplines)

 AJ 50 Intro to Admin of Justice (F16) GS 1 Introduction to Global Studies* PSYC 1 General Psychology
 AJ 60 Criminal Law (F16) GS 2 Global Issues PSYC 3 Introduction to Social Psychology
 AJ 66 Juvenile Procedures (F16) HEA 3 Women's Health (F15) PSYC 4 Brain, Mind and Behavior
 AJ 78 Introduction to Probation and Parole HEA 7 Introduction to Public Health PSYC 6 Abnormal Psychology
 ANTR 1 Biological Anthropology HEA 11 Health and Social Justice PSYC 12 Life-span Psychology
 ANTR 2 Introduction to Archaeology HIST 1 Western Civilization to 1600 PSYC 13 Psychology of Women
 ANTR 3 Cultural Anthropology HIST 2 Western Civilization since 1600 PSYC 15 Abnormal Child Psychology (F16)
 ANTR 4 Language and Culture HIST 3 World History to 1500 PSYC 21 Intro. to Cross-Cultural Psychology
 ANTR 5 Cultures of the U.S. in Global Perspective HIST 4 World History since 1500 PSYC 25 Research Methods
 ANTR 6 Anthropology of Sex and Gender HIST 7 US History Through Reconstruction PSYC 27 Introduction to Cognitive Science
 ANTR 7 Native American Cultures of North America HIST 8 US History Post-Reconstruction SOC 1 Principles of Sociology
 ANTR 8 World Prehistory in Archaeological Perspective HIST 14 History and American Cultures of California SOC 3 Cultural and Racial Minorities
 ANTR 12 Magic/Religion/Witchcraft/Healing HIST 25 American Indian History SOC 4 Marriage and Family Relations
 CMST 4 Introduction to Communication Studies HIST 28 History of the American West SOC 5 Introduction to Global Studies*
 CMST 10 Interpersonal Communication (F16) HIST 32 U.S. Women's History SOC 6 Social Problems
 CMST 11 Intercultural Communication (F16) MSCM 5 Intro. to Mass Communications** SOC 7 Sociology of Sexuality (F20)
 ECE 56 Child Growth and Development MSCM 31 Introduction to Media** SOC 11 Sociology of Gender
 ECON 1 Principles of Microeconomics PCN 13 Multicultural Issues in Contemporary America SOC 12 Popular Culture
 ECON 2 Principles of Macroeconomics POLI 7 Introduction to American Government SOC 13 Research Methods
 ECON 5 Economic History of the U. S. POLI 12 Introduction to California State and Local Government WMST 1 Introduction to Women's Studies
 ECON 10 General Economics POLI 20 Comparative Government WMST 2 Global Perspective of Women
 GEOG 2 Cultural Geography POLI 25 Introduction to Political Theory * GS 1 + SOC 5 maximum credit 1 course
 GEOG 5 World Regional Geography POLI 26 Introduction to Gender, Sexuality & Politics ** MSCM 5 + 31 maximum credit 1 course
 GEOG 12 Geography of California (F16) POLI 30 International Relations



2020-2021

Intersegmental General Education Transfer Curriculum (IGETC)

Area 5. Physical and Biological Sciences (at least 7 units required with at least 1 course each from **Physical Science** and **Biological Science** (at least 1 to contain a laboratory component))

5A - Physical Science (at least 3 units required)

ASTR 10 Introduction to Astronomy: The Solar System	EVST 5 Energy and Sustainability	GEOL 20 Earth Science for Educators ¹
ASTR 20 Introduction to Astronomy: Stars and the Universe	GEOG 1 Introduction to Physical Geography	PHYS 1A General Physics I ¹
CHEM 1A General College Chemistry I ¹	GEOG 8 Introduction to Atmospheric Science	PHYS 1B General Physics II ¹
CHEM 1B General College Chemistry II ¹	GEOG 12 Geography of California (F16)	PHYS 1C General Physics III ¹
CHEM 12A Organic Chemistry I ¹	GEOL 1 Physical Geology	PHYS 1D General Physics IV ¹
CHEM 12B Organic Chemistry II ¹	GEOL 2 Historical Geology with Lab ¹	PHYS 2A Introduction to Physics I ¹
CHEM 30A Intro and Applied Chemistry I ¹	GEOL 5 Environmental Geology: Hazards & Disasters	PHYS 2B Introduction to Physics II ¹
CHEM 30B Introductory and Applied Chemistry II ¹	GEOL 7 Environmental Geology: Resources, Use Impact & Pollution	PHYS 10 Descriptive Physics
CHEM 31 Intro to College Chemistry ¹	GEOL 12 Introduction to Oceanography	

5B - Biological Science (at least 3 units required)

ANTR 1 Biological Anthropology	BIO 7A Human Anatomy ¹	BIO 30 Introduction to College Biology ¹
ANTR 13 Introduction to Forensic Anthropology	BIO 7B Human Physiology ¹	BIO 40 Humans and the Environment
BIO 1A General Botany ¹	BIO 7C Microbiology	BIO 50 Anatomy and Physiology ¹
BIO 1B General Zoology ¹	BIO 10 Introduction to the Science of Biology ¹	BIO 60 Marine Biology ¹
BIO 1C Cell and Molecular Biology ¹	BIO 20 Contemporary Human Biology	PSYC 4 Brain, Mind and Behavior

5C - Laboratory Science Requirement (at least 1 unit required with at least course from below or from **Physical Science** or **Biological Science** marked with an ¹)

ANTR 1L Biological Anthropology Lab	GEOG 1L Introduction to Physical Geography Laboratory	PHYS 10L Descriptive Physics Lab
ANTR 2L Archaeology Field Lab	GEOL 1L Physical Geology Laboratory	
ASTR 30L Introduction to Astronomy Lab	GEOL 12L Intro to Oceanography Laboratory	

Area 6. Language Other Than English (UC Requirement - **required** to certify IGETC (for UC))

6A - Language Other Than English (proficiency in a **Language Other Than English** may be met in one of the following ways)

1. Complete 2 years of high school study in the same language, with a grade of 'C-' or better in the final term.
2. Demonstrating equivalent proficiency prior to transfer or AP Language & Cultures exam with score of 3 or higher.
3. Complete 1 of the following courses with a grade of 'C' or better

ASL 1A American Sign Language I	FREN 2A Intermediate French I	BIO 30 Introduction to College Biology ¹
ASL 1B American Sign Language II	FREN 2B Intermediate French II	BIO 40 Humans and the Environment
ASL 2A American Sign Language III	ITLN 1A Beginning Italian	BIO 50 Anatomy and Physiology ¹
ASL 2B American Sign Language IV	ITLN 1B Elementary Italian	BIO 60 Marine Biology ¹
FREN 1A Beginning French	SPAN 1A Beginning Spanish	PSYC 4 Brain, Mind and Behavior
FREN 1B Elementary French	SPAN 1B Elementary Spanish	

American Institutions US History, Constitution, and American Ideals (CSU Graduation Requirement - **NOT required** to certify IGETC)

Complete 1 group *Up to 6 units of these courses may also be applied to GE-B requirements in Area 3B or 4 if applicable*

Group 1

HIST 7 US History Through Reconstruction	HIST 8 US History Post-Reconstruction
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Group 2

HIST 7 US History Through Reconstruction	HIST 14 History and Amerocan Cultures of California
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Group 3

POLI 7 Introduction to American Government **and at least 1 of the following:**

HIST 7 US History Through Reconstruction	HIST 25 American Indian History
HIST 8 US History Post-Reconstruction	HIST 32 U.S. Women's History

FAQS: Frequency Asked Questions about IGETC

Q What is the Intersegmental General Education Transfer Curriculum (IGETC)

A IGETC is a general education pattern which community college transfer students can follow to fulfill lower-division general education requirements for either the UC or CSU systems. This pattern is advisable for students who are undecided about their transfer goals because it keeps their options open. Many private/independent colleges/universities also recognize or accept IGETC (see a counselor for details).

Q Is IGETC an admission requirement?

A NO. There is no connection between completion of IGETC and eligibility for admission to the CSU or UC system.

Q Can I use Advanced Placement (AP), International Baccalaureate (IB), and College Level Examination Program (CLEP) exams for CSU GE-B?

A YES. AP, IB, and CLEP exams may be applied to CSU GE-B with passing scores. For details, see the AP, IB, and CLEP Charts in the LPC Catalog. However, application of AP, IB, and CLEP exams to major requirements can vary at each CSU campus.

Q What is "CSU GE-B Certification" and how do I request it?

A CSU GE-B certification is the process by which the community college verifies that a student has completed all of the required coursework for the CSU GE-B pattern (39 units and partial completion is possible), which is sent directly to the transfer institution. If CSU GE-B is not certified, students may be subject to the lower-division GE requirements of the campus to which they transfer. Request a CSU GE-B Certification in the Admissions & Records Office at the end of the last semester before transferring.

Please note that Las Positas and Chabot College DO NOT share CSU GE-B or IGETC patterns. If you are interested in taking a course at Chabot College please be sure to see a counselor.

ADMINISTRATION OF JUSTICE

The Las Positas College Administration of Justice program offers courses that lead to an Associate of Arts degree, an Associate in Science for Transfer (AS-T), and a Basic Peace Officer Academy for students seeking full-time employment in law enforcement.

Programs of Study

Degrees:

- AS-T – Administration of Justice
- AA – Administration of Justice

A California Peace Officer's Standards and Training Basic Academy Certificate is awarded upon successful completion of the Alameda County Sheriff's POST Academy.

Career Opportunities

Career opportunities in AJ include: Municipal or Special District Police Officer, County Deputy Sheriff, Game Warden, Highway Patrol Officer, State Narcotics Agent. Some careers requiring a 4-year degree include, but are not limited to: FBI agent, DEA, Secret Service, Parole Agent, Probation Officer, and Forensic Specialist.

AS-T – Administration of Justice

About the Degree

The Las Positas College Administration of Justice program offers courses that lead to an Associate in Arts in Administration of Justice for transfer degree. The Associates in Art in Administration of Justice for Transfer prepares students for seamless transfer into the CSU system to complete a baccalaureate degree in Administration of Justice or similar major. This new degree provides Administration of Justice students assurance that their undergraduate work will prepare them for junior status within the CSU system. Completing this degree will provide a stronger foundation for further educational endeavors. After completing the required courses in this program students will graduate with a broad-based understanding of the field of administration of justice, its demands, required skill-sets, needed abilities, and career opportunities.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Career Opportunities

Career opportunities for students completing this Associate of Science in Administration of Justice for Transfer include: Municipal or Special District Police Officer, County Deputy Sheriff, FBI Agent*, DEA Agent*, Game Warden, Highway Patrol Officer, State Narcotics Agent, Lawyer*, Forensic Specialist*, Probation Officer*, and a host of other careers and jobs. (*Denotes a four-year degree requirement for that position.)

Program Outcomes

- Upon completion of the AS-T in Administration of Justice, students are academically prepared for transfer to a four year degree program. The student will be able to explain different components and subcomponents of the American criminal justice program; interpret criminal law statutes and differentiate between civil law and criminal law.

Required Core: (6 Units)

AJ 50 (Introduction to Administration of Justice).....	3
AJ 60 (Criminal Law)	3

List A: Select Two (6 Units)

AJ 55 (Introduction to Correctional Science)	3
AJ 61 (Evidence)	3
AJ 63 (Criminal Investigation)	3
AJ 66 (Juvenile Procedures)	3
AJ 70 (Community Relations)	3

List B: Select Two (6-7 Units)

Any List A course not already used.....	3
MATH 40 (Statistics and Probability)	4
PSYC 1 (General Psychology).....	3
SOC 1 (Principles of Sociology)	3

Total Units for the Major 18-19

Additional General Education and Elective Units 41-42

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AA – Administration of Justice

About the Degree

The Las Positas College Administration of Justice program offers

courses that lead to an Associate of Arts degree. It also prepares students academically for the POST Basic Peace Officer Academy for students seeking full-time employment in law enforcement. The degree program prepares students for transfer to a four-year college or university while the Basic Peace Officer Academy program prepares students for direct job entry with a California law enforcement agency.

Career Opportunities

Career opportunities in AJ include: Municipal or Special District Policy Officer, County Deputy Sheriff, FBI Agent*, DEA Agent*, Game Warden, Highway Patrol Officer, State Narcotics Agent, Lawyer*, Forensic Specialist*, Probation Officer*, Parole Agent, and a host of other careers and jobs. (*Denotes a four-year degree requirement for that position.)

Program Outcomes

- Upon completion of the AA in Administration of Justice, students are academically prepared for a California Peace Officer Standards and Training Commission basic training academy and prepared for transfer to a four year degree program. The student will be able to compare and contrast the different components and sub-components of the American criminal justice program; interpret criminal law statutes; differentiate between civil law and criminal law; investigate a scenario and create a police report utilizing proper investigative and evidentiary procedures and understand ethical leadership in a law enforcement agency.

Required Core: (21 Units)

AJ 50 (Introduction to Administration of Justice)	3
AJ 54 (Investigative Reporting)	3
AJ 60 (Criminal Law)	3
AJ 61 (Evidence)	3
AJ 63 (Criminal Investigation)	3
AJ 68 (Police Ethics and Leadership)	3
AJ 70 (Community Relations)	3

List A: Select Two (6 Units)

AJ 55 (Introduction to Correctional Science)	3
AJ 56 (Fundamentals of Crime and Delinquency)	3
AJ 59 (Child Abuse in the Community)	3
AJ 64 (Patrol Procedures)	3
AJ 66 (Juvenile Procedures)	3
AJ 69 (Sex Crime Investigation)	3
AJ 74 (Gangs and Drugs)	3
AJ 78 (Introduction to Probation and Parole)	3
AJ 79 (Homicide Investigation)	3
AJ 89 (Family Violence)	3
ANTR 13 (Introduction to Forensic Anthropology)	3
CNT 68 (Digital Forensics Fundamentals)	3
PSYC 1 (General Psychology)	3
PSYC 6 (Abnormal Psychology)	3
PSYC 12 (Life-Span Psychology)	3
SOC 1 (Principles of Sociology)	3
SOC 3 (Introduction to Race and Ethnicity) or ETHS 6 (Introduction to Race and Ethnicity)	4
SOC 6 (Social Problems)	3

Total Units for the Major 27

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Administration of Justice Courses (AJ)

AJ 1 BASIC ACADEMY MODULAR LEVEL ONE 16 UNITS

This course includes fundamental principles, procedures and techniques of law enforcement, including; criminal law, patrol procedures, cultural diversity, investigative procedures, report writing, defensive tactics, firearms, community relations, police vehicle operations, traffic enforcement and accident investigation. The course satisfies all minimum required training mandates for POST Entry Level I Peace Officer. Prerequisite: Successfully completed Basic Police Academy Modular Level Three and Basic Police Academy Modular Level Two, Passed the POST Reading/Writing Test (PELLETB), Passed the POST Physical Agility Work Sample Test Battery (WSTB) Test, Successfully completed Level Two End-of-course Proficiency Exam within 12 months of the start of the Level One course, Completed the Academy Application process, including medical clearance, proof of medical insurance, DMV history and DOJ Firearms Clearance. 180 hours lecture, 324 hours laboratory.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: P/NP

AJ 29 INDEPENDENT STUDY, ADMINISTRATION OF JUSTICE 0.5-2 UNITS

For course information, see "Independent Studies".

AJ 50 INTRODUCTION TO ADMINISTRATION OF JUSTICE 3 UNITS

History and philosophy of administration of justice in America; recapitulation of the system; identifying the various subsystems, role expectations, and their interrelationships; theories of crime, punishment, and rehabilitation; ethics, education and training for professionalism in the system. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D8; IGETC: 4G, 4J; C-ID# AJ 110.

Degree Applicable, Credit Grading Option: OP

AJ 54 INVESTIGATIVE REPORTING 3 UNITS

Investigative reports with emphasis upon accuracy and details necessary. Includes arrest reports, incident reports, and miscellaneous field reports. Techniques and methods used to cover information; how to analyze and present information in a clear and concise report. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

AJ 55 INTRODUCTION TO CORRECTIONAL SCIENCE 3 UNITS

Aspects of modern correctional process as utilized in rehabilitation of adult and juvenile offenders. Emphasis on custody, rehabilitation, and treatment programs as recognized by modern penology. Exploration of career opportunities. 54 hours lecture. Transfer: CSU; C-ID# AJ 200.

Degree Applicable, Credit Grading Option: OP

AJ 56 FUNDAMENTALS OF CRIME AND DELINQUENCY 3 UNITS

Survey of the sociological and psychological theories pertaining to the causation of crime and delinquency. Includes ethnic considerations and their relationships. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC*; CSU GE: D0. *AJ 56 and 66 combined: maximum UC credit, 1 course.

Degree Applicable, Credit Grading Option: OP

AJ 59 CHILD ABUSE IN THE COMMUNITY 3 UNITS

Dynamics of battered child syndrome. Focus on the abusive caretaker, patterns of abuse and means necessary for effective intervention and treatment, including effective legal and social action to control child abuse in the community. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AJ 60 CRIMINAL LAW 3 UNITS

Historical development, philosophy of law and constitutional provisions; definitions, classification of crime and their application to the system of administration of justice; frequently used Penal and other code sections; case law, methodology and concepts of law as a social force. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC*; CSU GE: D8; IGETC: 4G, 4J; C-ID# AJ 120. *AJ 60, 70, and 74 combined: maximum UC credit, 1 course.

Degree Applicable, Credit Grading Option: GR

AJ 61 EVIDENCE 3 UNITS

Origin, development, philosophy and constitutional basis of evidence; constitutional and procedural considerations affecting arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies. 54 hours lecture. Transfer: CSU; C-ID# AJ 124.

Degree Applicable, Credit Grading Option: GR

AJ 63 CRIMINAL INVESTIGATION 3 UNITS

This course addresses the techniques, procedures, and ethical issues in the investigation of crime, including organization of the investigative process, crime scene searches, interviewing and interrogating,

surveillance, source of information, utility of evidence, scientific analysis of evidence and the role of the investigator in the trial process. 54 hours lecture. Transfer: CSU; C-ID# AJ 140.

Degree Applicable, Credit Grading Option: GR

AJ 64 PATROL PROCEDURES 3 UNITS

The responsibilities, techniques of observation, community relations and methods of police patrol. Emphasis on legal and practical aspects. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

AJ 66 JUVENILE PROCEDURES 3 UNITS

This course is an examination of the origin, development, and organization of the juvenile justice system as it evolved in the U.S. justice system. The course explores the theories that focus on juvenile law, courts and processes, and the constitutional protections extended to juveniles in the U.S. justice system. Strongly Recommended: Eligibility for ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC*; CSU GE: D0, D8; IGETC: 4G, 4J; C-ID# AJ 220. *AJ 56 and 66 combined: maximum credit, 1 course.

Degree Applicable, Credit Grading Option: GR

AJ 68 POLICE ETHICS AND LEADERSHIP 3 UNITS

This course will explore the ethical, legal and moral complexities of law enforcement in a democracy. From the initial application process and background investigation of a potential law enforcement recruit, to the working law enforcement officer, the course will examine society's need for ethical behavior and leadership by law enforcement agencies and the personal commitment to ethical behavior and ethical leadership by individual law enforcement officers, both on the job and in their private lives. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AJ 69 SEX CRIME INVESTIGATION 3 UNITS

Sexual assault investigations; human behavior in relation to sexual attitudes and behavior; sexual assault laws and investigations; interview and interrogation techniques; court preparation and trial phase; sex crime prevention. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

AJ 70 COMMUNITY RELATIONS 3 UNITS

This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics may include the consensus and conflicting values in Culture, Religion, and Law. 54 hours lecture. Transfer: CSU, UC*; C-ID# AJ 160. *AJ 60, 70, and 74 combined: maximum UC credit, 1 course.

Degree Applicable, Credit Grading Option: GR

AJ 74 GANGS AND DRUGS 3 UNITS

Definition of a gang and gang activity. Historical, cultural and ethnic/racial aspects. Interrelationships among local, national, and international gangs, including prison gangs. Gang activity in relation to drug trafficking. 54 hours lecture. Transfer: CSU, UC*. *AJ 60,

70 and, 74 combined: maximum UC credit, 1 course.

Degree Applicable, Credit Grading Option: OP

AJ 78 INTRODUCTION TO PROBATION AND PAROLE 3 UNITS

The history, evolution and current state of probation and parole in the United States, with an emphasis on the differences and similarities of both. Modern trends, such as the justice model, determinate sentencing, restorative justice, “broken windows” supervision, and intensive supervision in the adult and juvenile system are also examined. The course includes discussion of the community resources that can be brought to bear on the correctional task and the concept of shock probation. Designed for students interested in the field of law enforcement or probation/parole. Strongly Recommended: AJ 50 with a minimum grade of C. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D; IGETC: 4.

Degree Applicable, Credit Grading Option: GR

AJ 79 HOMICIDE INVESTIGATION 3 UNITS

Process of analysis of all aspects of the death case in order to arrive at the true cause and manner of death, whether it is murder, suicide, accidental, or natural. Emphasis on the importance of the death scene related to the investigation of cause. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

AJ 87A PC 832 ARREST 1.5 UNITS

Leadership, professionalism and ethics; laws of arrest; arrest and control; search and seizure; investigative report writing; methods of arrest; investigation and communications; use of force; evidence; cultural diversity/discrimination. Designed to satisfy the 2019 revised requirements of Penal Code 832. Prerequisite: Must demonstrate ability to lawfully possess a firearm and be able to pass DOJ firearms clearance. 18 hours lecture, 27 hours laboratory.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: P/NP

AJ 87B PC 832 FIREARMS 1 UNIT

PC 832 Firearms Familiarization and Chemical Agents is a 24-hour course designed to cover the legal, moral and safety aspects of firearms use, range firing and qualification, weapon care and cleaning as well as expending and identification of Chemical agents. It complies with the requirements of Section 832 of the Penal Code. Because this course is designed to provide practical hands on training in police tactics and weapon usage, participants in this course will engage in physically demanding classroom training exercises that include a risk of injury to the participant. Prerequisite: Must demonstrate ability to lawfully possess a firearm and be able to pass DOJ firearms clearance. 9 hours lecture, 27 hours laboratory.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: P/NP

AJ 89 FAMILY VIOLENCE 3 UNITS

The nature and dynamics of family and relationship violence, including historical, legal, and cross-cultural views. Specific types of violent interactions and abuse among family members, including intimate partner abuse, sexual violence, child abuse and neglect,

and elder abuse. Social influences that may cause or reinforce violent behavior in the home. Emphasis on techniques for use by law enforcement to effectively intervene and investigate, and understanding of the criminal justice response to victims, offenders, and family members affected by violence in the family. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

AJ 9954 DEFENSIVE TACTICS INSTRUCTOR 2.5 UNITS

Students will develop knowledge in practices and philosophy of use of force, basic principles and concepts of Arrest & Control and legal issues. Students will develop skills in course development, class planning, instructional techniques, and instructor liability for a defensive tactics program. Students will develop a basic lesson plan and teach assigned blocks of instruction in defensive tactics to other class participants. Students will demonstrate proficiency in the physical techniques of defensive tactics. Completion of this Defensive Tactics Instructor Course satisfies Regulation 1070 in the POST Administrative Manual. This course also satisfies the Arrest and Control perishable skills mandate. 27 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

AJ 9965 INTERNAL AFFAIRS INVESTIGATIONS 1.5 UNITS

Designed to teach the student the proper investigative techniques into alleged misconduct by California peace officers, correctional officers and others in the employ of any California agency that employs peace officers. The student will learn the legal, ethical, moral and technical standards by which these investigations shall be conducted under state law and the discipline that may result from the outcome. This class is designed for POST certified peace officers who hold a minimum of a basic POST certificate or civilian police employees who have been designated by their respective agency as an IA investigator. 27 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

AJ 9969 FIREARMS INSTRUCTOR 2.5 UNITS

Designed to train individuals to be firearms instructors. Covers basic firearms knowledge, teaching techniques and lesson planning, range preparation, combat shooting techniques and safety. A California Peace Officer Standards and Training (POST) certified course designed for full-time peace officers. 27 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

AJ 9979 BASIC POLICE CYCLIST 1.5 UNITS

A course designed for those newly assigned to bicycle patrol work. Covers basic cycling principles and skills, including riding in traffic, bicycle fitness, gear selection, basic maintenance, health and nutrition, emergency handling skills, hazard evasion, night riding, patrol tactics, legal issues, traffic laws and scenarios. This is a California Peace Officer Standards and Training (POST) certified course regular or reserve peace officers in federal, state, or local law enforcement. 18 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

AJ 9980 RIFLE MARKSMANSHIP AND SNIPER/OBSERVER 2 UNITS

A course designed to provide the necessary rifle and tactical skills for the Sniper/Observer to function in support of high-risk law enforcement operations. Course content includes team missions, organization, marksmanship skills, field craft, ballistics, information collection, reporting procedures and tactical command post. This is a California Peace Officers Standards and Training (POST) certified course designed for regular or reserve peace officers in federal, state, or local law enforcement and/or active duty military personnel. 27 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

AJ 9982 PATROL RIFLE INSTRUCTOR 1.5 UNITS

Instruction and practical exercises focused on the specific needs of the rifle instructor. Includes the use and application of the rifle as it pertains to law enforcement and the skills to instruct others in its use and maintenance. A California Peace Officers Standards and Training (POST) certified course designed for full-time peace officers. 18 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

AJ 9987 BASIC S.W.A.T. 2.5 UNITS

Introduces officers to basic weapons and tactical skills associated with the responsibilities of a SWAT team member. Training includes member selection and team make-up, keys to survival, introduction to tactical weapons and movement of fire, weapon retention and take away, tactical building searches, rappelling, incident management under SMEAC and liability issues. This is a California Peace Officer Standards and Training (POST) certified course designed for full-time peace officers approved for SWAT training for their agency. 27 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

AJ 9995 FIREARMS/TACTICAL RIFLE FOR THE FIRST RESPONDER 0.5 UNITS

This course is designed to train individuals in the use of the patrol rifle or carbine. This course will enable the first responder an option now becoming the standard in Law Enforcement. Some of the topics covered are rifle safety, marksmanship, zeroing procedures, firing positions, ballistics, reloading drills, malfunction drills, proper use of the rifle sling, basic tactics, low light engagements, and cover. Each attendee will be required to demonstrate proper usage and safe handling of the rifle. This course is designed for full time sworn law enforcement and/or active duty military personnel and other Public Safety First Responders. 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

AJ 9997 LAW ENFORCEMENT ACADEMY 29 UNITS

Basic concepts of law enforcement, covering investigation, procedures, records, laws, tactics, firearms, and public and human relations. The Law Enforcement Academy is certified by the Commission of Peace Officer Standards and Training (POST). Strongly Recommended: AJ 50 with a minimum grade of C and AJ 60 with a minimum grade of C and AJ 61 with a minimum grade of C and AJ 70 with a minimum grade of C or employment as a peace

officer. 252 hours lecture, 810 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

AJ 9998 POST BASIC SUPERVISORY 4.5 UNITS

This course will cover the basic theories of leadership as they apply to problem-solving. The principles of authority and command will also be explored; as will the concept of failure as it relates to organizational decision-making. Examples will be offered from various models of leadership, including historic leadership styles, command and control, and leadership roles. Problem-solving/decision-making and strategic planning are current themes to be covered in the context of leadership. Prerequisite: AJ 9997 with a minimum grade of P or Possession of a Basic California POST Certificate. 81 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

AMERICAN SIGN LANGUAGE

The American Sign Language (ASL) program provides an introduction to the language of the Deaf, the Deaf Community, and Deaf Culture. ASL classes emphasize conversational skills in functional situations and provide students an opportunity to explore, in a relaxed atmosphere, the language and culture of Deafness.

American Sign Language Courses (ASL)

ASL 1A AMERICAN SIGN LANGUAGE I 3 UNITS

Introduction to American Sign Language (ASL), including expressive and receptive skills, the manual alphabet, facial expression, and body gestures. Emphasis on conversational skills in functional situations, knowledge of Deaf culture and the Deaf community. 54 hours lecture. AA/AS GE: IB. Transfer: CSU, UC; IGETC: 6A.

Degree Applicable, Credit Grading Option: GR

ASL 1B AMERICAN SIGN LANGUAGE II 3 UNITS

Continued development of American Sign Language (ASL) receptive/expressive skills and knowledge learned in ASL 1A. Emphasis on conversational skills in functional situations, continued vocabulary and sentence structure expansion, and knowledge of Deaf culture and the Deaf community. Prerequisite: ASL 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: IB. Transfer: CSU, UC; IGETC: 6A.

Degree Applicable, Credit Grading Option: GR

ASL 2A AMERICAN SIGN LANGUAGE III 3 UNITS

Further development of American Sign Language (ASL) receptive/expressive skills and knowledge learned in Sign Language 1B. Emphasis on conversational skills in functional situations, continued vocabulary expansion and knowledge of deaf culture and the deaf community. Prerequisite: ASL 1B with a minimum grade of C. 54

hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B, 6A.

Degree Applicable, Credit Grading Option: GR

ASL 2B AMERICAN SIGN LANGUAGE IV 3 UNITS

Further development of American Sign Language (ASL) receptive/ expressive skills and knowledge learned in American Sign Language 2A. Emphasis on conversational skills in functional situations, continued expansion of vocabulary and knowledge of deaf culture and the deaf community. Prerequisite: ASL 2A with a minimum grade of C. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B, 6A.

Degree Applicable, Credit Grading Option: GR

ANTHROPOLOGY

Anthropology studies human beings from a holistic and cross-cultural perspective. Encompassing every aspect of human existence, the subject matter of anthropology is traditionally divided into four fields: physical or biological anthropology, social or cultural anthropology, linguistics, and archaeology. A comparative science, its concerns include human genetic, cultural, and linguistic variation. Anthropologists uncover the prehistory of humanity as they help us to understand the problems of today. They are advocates of multiculturalism because they appreciate cultural diversity, an attribute that prepares them well for navigating the complexities of the 21st century world.

Programs of Study

Degrees:

- AA-T – Anthropology

Career Opportunities

As modern technology and business practices dissolve borders across the globe, the demand for anthropologists grows. Anthropologists inform public policy, manage development projects and work in the Foreign Service. They carry out market research, conduct public relations and become journalists, urban planners, medical researchers and park rangers. Anthropologists reveal the story of the past through genetic and archaeological research; they also use forensic science to determine the truths of today. Their skill set is applicable across a diverse set of research, development and policy-making opportunities throughout the corporate, non-profit, government and military sectors.

AA-T – Anthropology

About the Degree

The Las Positas College Anthropology program offers courses that lead to an Associate in Arts in Anthropology for Transfer degree. The major requirements for the Associate in Arts in Anthropology for transfer degree align with the Intersegmental Transfer Model Curriculum (TMC) for Anthropology. Students will have guaranteed admission to a California State University (CSU) campus upon

successful completion of the program requirements. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AA-T in Anthropology, students are able to explain why there is no biological validity to the concept of "race."
- Upon completion of the AA-T in Anthropology, students are able to describe and discuss differing cultural practices using anthropological theories and terms.
- Upon completion of the AA-T in Anthropology, students are able to describe and discuss the evolution and prehistory of human beings.
- Upon completion of the AA-T in Anthropology, students are able to use the scientific method to test hypotheses and establish empirical facts.

Required Core: (9 Units)

ANTR 1 (Biological Anthropology).....	3
ANTR 2 (Introduction to Archaeology).....	3
ANTR 3 (Cultural Anthropology).....	3

List A: Select One (3 Units)

ANTR 4 (Language and Culture).....	3
ANTR 12 (Magic/Religion/Witchcraft/Healing).....	3

List B: Select One to Two (4-8 Units)

Any List A course not already used.....	3
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1. Science Methods

PSYC 25 (Research Methods) or SOC 13 (Research Methods).....	4
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2. Sciences

GEOL 1* (Physical Geology).....	3
and GEOL 1L* (Physical Geology Laboratory).....	1
GEOG 15** (Introduction to GIS).....	3

List C: Select One (3-4 Units)

Any List A or B course not already used	3-4
ANTR 5 (Cultures of the U.S. in Global Perspective).....	3
ANTR 6 (Anthropology of Sex and Gender).....	3
ANTR 7 (Native American Cultures of North America)	3
ANTR 8 (World Prehistory In Archaeological Perspective)	3
ANTR 13 (Introduction to Forensic Anthropology)	3
HIST 14 (History and American Cultures of California)	3
HIST 25 (American Indian History).....	3
PCN 13 (Multicultural Issues in Contemporary America).....	3
PSYC 21 (Introduction to Cross-Cultural Psychology)	3
SOC 3 (Cultural and Racial Minorities)	3

Total Units for the Major 19-23

Additional General Education and Elective Units36-41

Total Units 60

**Must be taken together and count as one course.*

***GEOG 15 cannot satisfy List B or C on its own.*

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Anthropology Courses (ANTR)

ANTR 1 BIOLOGICAL ANTHROPOLOGY 3 UNITS

This course introduces the concepts, methods of inquiry, and scientific explanations for biological evolution and their application to the human species. Issues and topics will include, but are not limited to, genetics, evolutionary theory, human variation and biocultural adaptations, comparative primate anatomy and behavior, and the fossil evidence for human evolution. The scientific method serves as the foundation of the course. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: II, IV. Transfer: CSU, UC; CSU GE: B2, D1; IGETC: 4A, 5B; C-ID# ANTH 110.

Degree Applicable, Credit Grading Option: OP

ANTR 1L BIOLOGICAL ANTHROPOLOGY 1 UNIT LAB

This laboratory course is offered as a supplement to Introduction to Biological Anthropology either taken concurrently or in a subsequent term. Laboratory exercises are designed to introduce students to the scientific method and explore genetics, human variation, human and non-human primate anatomy and behavior, the primate/hominin fossil record and other resources to investigate processes that affect human evolution. Prerequisite: ANTR 1 with a minimum grade of C (may be taken concurrently). Strongly Recommended: Eligibility for ENG 1A. 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B3; IGETC: 5C; C-ID# ANTH 115L.

Degree Applicable, Credit Grading Option: OP

ANTR 2 INTRODUCTION TO ARCHAEOLOGY 3 UNITS

This course is an introduction to the study of concepts, theories, data and models of anthropological archaeology that contribute to our knowledge of the human past. The course includes a discussion of the nature of scientific inquiry; the history and interdisciplinary nature of archaeological research; dating techniques; methods of survey, excavation, analysis, and interpretation; cultural resource management; professional ethics; and selected cultural sequences. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D1; IGETC: 4A; C-ID# ANTH 150.

Degree Applicable, Credit Grading Option: OP

ANTR 2L ARCHAEOLOGY FIELD LAB 1 UNIT

This Archaeology Field Lab course offers hands-on field experience and artifact analysis. Students practice scientific archaeological recovery methods and techniques, including site planning, excavation, typology, cataloging, artifact recognition and reconstruction. In addition to gaining expertise in field research, students will examine and discuss techniques, tools and processes in cultural resource management. Prerequisite: ANTR 2 with a minimum grade of C (May be taken concurrently). 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B3; IGETC: 5C.

Degree Applicable, Credit Grading Option: OP

ANTR 3 CULTURAL ANTHROPOLOGY 3 UNITS

This course explores how anthropologists study and compare human cultures. Cultural anthropologists seek to understand the broad arc of human experience focusing on a set of central issues: how people around the world make their living (subsistence patterns); how they organize themselves socially, politically and economically; how they communicate; how they relate to each other through family and kinship ties; what they believe about the world (belief systems) themselves creatively (expressive culture); how they make distinctions among themselves such as through applying gender, racial and ethnic identity labels; how they have shaped and been shaped by social inequalities such as colonialism; and how they navigate culture change and processes of globalization that affect us all. Ethnographic case studies highlight these similarities and differences, and introduce students to how anthropologists do their work, employ professional anthropological research ethics and apply their perspectives and skills to understand humans around the globe. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D1; IGETC: 4A; C-ID# ANTH 120.

Degree Applicable, Credit Grading Option: OP

ANTR 4 LANGUAGE AND CULTURE 3 UNITS

This introductory course serves as a foundation for understanding language from an anthropological perspective, addressing such core questions as how, what, when, where, why and with whom we communicate. This course surveys three core areas in linguistic anthropology--structural linguistics: phonetics, phonology, morphology and syntax, as well as the biocultural basis of language; historical linguistics: origins and evolution/change, dialects, and language families; and sociocultural linguistics: language acquisition in cultural context, emphasizing the relationship between language

and culture, and issues of language conservation and loss. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D1; IGETC: 4A; C-ID# ANTH 130.

Degree Applicable, Credit Grading Option: OP

ANTR 5 CULTURES OF THE U.S. IN GLOBAL PERSPECTIVE 3 UNITS

Issues relevant to understanding race, class, gender and ethnicity within the American setting. Historical as well as contemporary situation of the following groups: 1) African Americans; 2) Native Americans 3) Hispanic Americans; 4) European Americans; and, 5) Asian Americans, among other groups. Emphasis on analyzing the way that public understandings of culture and biology are translated into social policy. Contemporary social issues such as race relations, multiculturalism, affirmative action, bilingual education, and the use and abuse of I.Q. testing. 54 hours lecture. AA/AS GE: IV, AC. Transfer: CSU, UC; CSU GE: D1, D3; IGETC: 4A.

Degree Applicable, Credit Grading Option: OP

ANTR 6 ANTHROPOLOGY OF SEX AND GENDER 3 UNITS

Using research and theory from the fields of biology, cultural anthropology, linguistics, and archaeology, this course takes an anthropological approach to the study of sex and gender across cultures and throughout time. Topics include the cultural construction of gender, sex, and sexuality; the biological foundations of sex; and how gender difference relates to cultural practice. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D; IGETC: 4.

Degree Applicable, Credit Grading Option: OP

ANTR 7 NATIVE AMERICAN CULTURES OF NORTH AMERICA 3 UNITS

Survey of ways of life of traditional North American Indian cultures in different geographical areas throughout North America prior to European contact and continuing today. Topics include prehistory of Native American cultures, cultural change in response to European contact, current Native American socio-economic conditions, recent legislation including NAGPRA, social movements and cultural renewal. 54 hours lecture. AA/AS GE: IV, AC. Transfer: CSU, UC; CSU GE: D; IGETC: 4.

Degree Applicable, Credit Grading Option: OP

ANTR 8 WORLD PREHISTORY IN ARCHAEOLOGICAL PERSPECTIVE 3 UNITS

Survey of world prehistory as reconstructed through archaeological evidence. Topics include Paleolithic cultural practices from early tool use and mobile communities through settled living in complex agricultural societies to the establishment, rise and collapse of the first major civilizations in Africa, Asia, Europe, the Middle East, the Americas and Oceania. Subsistence, economic networks, social systems, power distributions, symbols and ideology will be discussed, as well as ecological effects of urbanization in the past. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D; IGETC: 4.

Degree Applicable, Credit Grading Option: OP

ANTR 12 MAGIC/RELIGION/ WITCHCRAFT/HEALING 3 UNITS

Cross-cultural perspectives on spirituality, religious practice, myth, ancestor beliefs, witchcraft and the variety of religious rituals and practitioners found in the cultures of the world. Examination of the cosmologies of different cultures through the anthropological perspective. Emphasis is placed on how knowledge of the religious practices and beliefs of others can help us to understand the multicultural world in which we live. Comparison of the ways in which diverse cultures confront the large and fundamental questions of existence: those dealing with the meaning life, birth and death, and with the relationship of humans to each other and to their universe. Strongly Recommended: Eligibility for ENG 1A/1AEX. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D1; IGETC: 4A.

Degree Applicable, Credit Grading Option: GR

ANTR 13 INTRODUCTION TO FORENSIC ANTHROPOLOGY 3 UNITS

Introductory course in the application of physical anthropology to the medico-legal process with an emphasis on the identification of human skeletal remains. Includes basic human osteology and odontology, assessment of age at time of death, sex, ancestry, trauma analysis, pathology, and general physical characteristics including height and weight based upon minimal skeletal remains. Estimation of time since death, crime scene analysis, animal scavenging, and identification procedures. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: II, IV. Transfer: CSU, UC; CSU GE: B2; IGETC: 5B.

Degree Applicable, Credit Grading Option: OP

ANTR 29A INDEPENDENT STUDY, CULTURAL ANTHROPOLOGY 0.5-2 UNITS

For course information, see "Independent Studies". Strongly Recommended: Eligibility for ENG 1A. 27-108 hours laboratory.

Grading Option: GR

ANTR 29B INDEPENDENT STUDY, BIOLOGICAL ANTHROPOLOGY 0.5-2 UNITS

For course information, see "Independent Studies". Strongly Recommended: Eligibility for ENG 1A. 27-108 hours laboratory.

Grading Option: GR

ANTR 29C INDEPENDENT STUDY, ARCHAEOLOGY/ PREHISTORY 0.5-2 UNITS

For course information, see "Independent Studies". Strongly Recommended: Eligibility for ENG 1A. 27-108 hours laboratory.

Grading Option: GR

ANTR 29D INDEPENDENT STUDY, LINGUISTIC ANTHROPOLOGY 0.5-2 UNITS

For course information, see "Independent Studies". Strongly Recommended: Eligibility for ENG 1A. 27-108 hours laboratory.

Grading Option: GR

APPRENTICESHIP IRONWORKERS

The mission of Ironworkers Apprenticeship Training program is intended to ensure that union ironworkers have the skills, knowledge, and training necessary to be safe on the jobsite, competitive in the workplace, and satisfied in their careers. This program ensures that local and shop members in Northern California receive the comprehensive and effective education and training that will enable them to carry out their work safely and efficiently while meeting the highest standards of quality.

Programs of Study

Degrees:

- AS – Shop Ironworkers Apprenticeship

Certificates of Achievement:

- Basic Shop Ironworkers Apprenticeship
- Elementary Shop Ironworkers Apprenticeship
- Intermediate Shop Ironworkers Apprenticeship
- Advanced Shop Ironworkers Apprenticeship

AS – Shop Ironworkers Apprenticeship

About the Degree

The Shop Ironworker Associates Degree provides basic through advanced level skills and knowledge based coursework intended to set up a Journey level ironworker necessary for a successful and rewarding career as a shop ironworker. Lecture based classroom work leads to knowledge that is used for practical shop floor applications covered in hands on skills laboratories. Blueprints, welding, layout, labor studies as well as safety is covered.

Career Opportunities

Shop Ironworker Ornamental Iron Fabricator Metal Fabricator Welder Fitter

Program Outcomes

- Upon completion of the AS in Shop Ironworkers Apprenticeship, students are able to operate safely in an ironworker shop environment.
- Upon completion of the AS in Shop Ironworkers Apprenticeship, students are able to demonstrate AWS code quality welding.
- Upon completion of the AS in Shop Ironworkers Apprenticeship, students are able to demonstrate the ability to read and interpret blueprints used in the ironworker shop.
- Upon completion of the AS in Shop Ironworkers Apprenticeship,

students are able to demonstrate the ability to layout and fabricate steel stairs and handrail.

- Upon completion of the AS in Shop Ironworkers Apprenticeship, students are able to describe the benefits derived from collective bargaining and union membership.

Required Core: (41 Units)

APIW 51 (Blueprint Reading I).....	3
APIW 52 (Shop Ironworkers Mathematics).....	1.5
APIW 53 (Welding Technology).....	3
APIW 54 (Structural I).....	3
APIW 55 (Work Place Safety and Machinery Operation/ Labor Studies I).....	1.5
APIW 56 (Structural II).....	3
APIW 57 (Structural III).....	3
APIW 58 (Welding Code/AISC/Metallurgy/Labor Studies II).....	1.5
APIW 59 (Metal Stairs Layout and Fabrication).....	3
APIW 60 (Metal Railing Layout and Fabrication).....	3
APIW 61 (Ornamental Metal Fabrication/Structural IV).....	1.5
APIW 62 (Blueprint Reading II).....	3
APIW 94 (Occupational Work Experience - Ironworkers Apprenticeship).....	11

Program-Based GE[^]: Select One (3 Units)

CMST 1 (Fundamentals of Public Speaking).....	3
CMST 10 (Interpersonal Communication).....	3
SOC 1 (Principles of Sociology).....	3

Total Units for the Major 41

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Basic Shop Ironworkers Apprenticeship

About the Certificate

The basic shop ironworkers apprenticeship certificate provides necessary basic foundational skills and knowledge to set an apprentice up for success as a shop ironworker. Lecture based basic classroom work leads to knowledge that is used for practical shop floor applications covered in hands on basic skills laboratories.

Career Opportunities

Shop Ironworker Ornamental Iron Fabricator Metal Fabricator
Welder Fitter

Program Outcomes

- Upon completion of the Certificate of Achievement in Basic Shop Ironworkers Apprenticeship, students are able to identify the basic line types used on an blueprints.
- Upon completion of the Certificate of Achievement in Basic Shop Ironworkers Apprenticeship, students are able to calculate material lengths base on tapeline measurements.
- Upon completion of the Certificate of Achievement in Basic Shop Ironworkers Apprenticeship, students are able to demonstrate using a calculator to solve right triangle problems.
- Upon completion of the Certificate of Achievement in Basic Shop Ironworkers Apprenticeship, students are able to demonstrate the skills needed to perform AWS Code quality welding in the flat position.
- Upon completion of the Certificate of Achievement in Basic Shop Ironworkers Apprenticeship, students are able to identify essential components of being a valuable ironworker employee.

Required Core: (16.5 Units)

APIW 51 (Blueprint Reading I).....	3
APIW 52 (Shop Ironworkers Mathematics).....	1.5
APIW 53 (Welding Technology).....	3
APIW 94 (Occupational Work Experience - Ironworkers Apprenticeship).....	9

Total Units 16.5

Certificate of Achievement Elementary Shop Ironworkers Apprenticeship

About the Certificate

The elementary shop ironworkers apprenticeship certificate provides necessary elementary skills and knowledge to set an apprentice up for success as a shop ironworker. Lecture based elementary classroom work leads to knowledge that is used for practical shop floor applications covered in hands on elementary skills laboratories.

Career Opportunities

Shop Ironworker Ornamental Iron Fabricator Metal Fabricator
Welder Fitter

Program Outcomes

- Upon completion of the Certificate of Achievement in Elementary Shop Ironworkers Apprenticeship, students are able to identify common structural shapes used on an blueprints.
- Upon completion of the Certificate of Achievement in Elementary Shop Ironworkers Apprenticeship, students are able to demonstrate layout of basic structural columns and base

plates.

- Upon completion of the Certificate of Achievement in Elementary Shop Ironworkers Apprenticeship, students are able to demonstrate fit-up and preparation of beam ends intended for complete joint penetration.
- Upon completion of the Certificate of Achievement in Elementary Shop Ironworkers Apprenticeship, students are able to demonstrate the skills needed to perform AWS Code quality welding in the horizontal position.
- Upon completion of the Certificate of Achievement in Elementary Shop Ironworkers Apprenticeship, students are able to operate safely in a shop Ironworker employment environment.

Required Core: (22 Units)

APIW 51 (Blueprint Reading I).....	3
APIW 52 (Shop Ironworkers Mathematics).....	1.5
APIW 53 (Welding Technology).....	3
APIW 54 (Structural I).....	3
APIW 55 (Work Place Safety and Machinery Operation/ Labor Studies I).....	1.5
APIW 56 (Structural II).....	3
APIW 94 (Occupational Work Experience - Ironworkers Apprenticeship).....	7

Total Units 22

Certificate of Achievement Intermediate Shop Ironworkers Apprenticeship

About the Certificate

The intermediate shop ironworkers apprenticeship certificate provides necessary intermediate skills and knowledge to set an apprentice up for success as a shop ironworker. Lecture based intermediate classroom work leads to knowledge that is used for practical shop floor applications covered in hands on intermediate skills laboratories.

Career Opportunities

Shop Ironworker Ornamental Iron Fabricator Metal Fabricator
Welder Fitter

Program Outcomes

- Upon completion of the Certificate of Achievement in Intermediate Shop Ironworkers Apprenticeship, students are able to identify tools used for layout of patterns and templates.
- Upon completion of the Certificate of Achievement in Intermediate Shop Ironworkers Apprenticeship, students are able to demonstrate layout of flat plates, drill bushings and angle templates.
- Upon completion of the Certificate of Achievement in Intermediate Shop Ironworkers Apprenticeship, students are able to demonstrate fit-up and preparation of pipe and rolled sections.
- Upon completion of the Certificate of Achievement in

Intermediate Shop Ironworkers Apprenticeship, students are able to demonstrate the skills needed to perform AWS Code quality welding in the vertical position.

- Upon completion of the Certificate of Achievement in Intermediate Shop Ironworkers Apprenticeship, students are able to identify various non-destructive tests that are utilized to check welds for soundness.

Required Core: (22.5 Units)

APIW 51 (Blueprint Reading I).....	3
APIW 52 (Shop Ironworkers Mathematics).....	1.5
APIW 53 (Welding Technology).....	3
APIW 54 (Structural I).....	3
APIW 55 (Work Place Safety and Machinery Operation/ Labor Studies I).....	1.5
APIW 56 (Structural II).....	3
APIW 57 (Structural III).....	3
APIW 58 (Welding Code/AISC/Metallurgy/Labor Studies II).....	1.5
APIW 59 (Metal Stairs Layout and Fabrication).....	3

Total Units 22.5

Certificate of Achievement Advanced Shop Ironworkers Apprenticeship

About the Certificate

The advanced shop ironworkers apprenticeship program provides necessary advanced skills and knowledge to set an apprentice up for success as a shop ironworker. Lecture based advanced classroom work leads to knowledge that is used for practical shop floor applications covered in hands on advanced skills laboratories.

Career Opportunities

Shop Ironworker Ornamental Iron Fabricator Metal Fabricator
Welder Fitter

Program Outcomes

- Upon completion of the Certificate of Achievement in Advanced Shop Ironworkers Apprenticeship, students are able to explain the AWS code requirements for the qualification of welders and welding operators.
- Upon completion of the Certificate of Achievement in Advanced Shop Ironworkers Apprenticeship, students are able to demonstrate torque inspection of high strength steel bolts and fasteners.
- Upon completion of the Certificate of Achievement in Advanced Shop Ironworkers Apprenticeship, students are able to demonstrate visual inspection of welded materials for weld soundness and discontinuities.
- Upon completion of the Certificate of Achievement in Advanced Shop Ironworkers Apprenticeship, students are able to demonstrate preparation of structural members for painting work.

- Upon completion of the Certificate of Achievement in Advanced Shop Ironworkers Apprenticeship, students are able to explain how building loads are distributed into the ground through the use of footings.

Required Core: (30 Units)

APIW 51 (Blueprint Reading I).....	3
APIW 52 (Shop Ironworkers Mathematics).....	1.5
APIW 53 (Welding Technology).....	3
APIW 54 (Structural I).....	3
APIW 55 (Work Place Safety and Machinery Operation/ Labor Studies I).....	1.5
APIW 56 (Structural II).....	3
APIW 57 (Structural III).....	3
APIW 58 (Welding Code/AISC/Metallurgy/Labor Studies II).....	1.5
APIW 59 (Metal Stairs Layout and Fabrication).....	3
APIW 60 (Metal Railing Layout and Fabrication).....	3
APIW 61 (Ornamental Metal Fabrication/Structural IV).....	1.5
APIW 62 (Blueprint Reading II).....	3

Total Units 30

Apprenticeship Ironworkers Courses (APIW)

APIW 51 BLUEPRINT READING I 3 UNITS

This course is designed to teach students reading and interpretation of structural steel fabrication blueprints used in industry. Material covered includes drawings as a communication tool, typical drawing types, line types and usage, dimensions, abbreviations, drawing notes, as well as applications of shop floor usage of blueprints in structural fabrication. Prerequisite: Student is a registered State indentured apprentice and a member of Northern California Shop Ironworkers Local 790. 54 hours lecture.

Degree Applicable, Credit Grading Option: OP

APIW 52 SHOP IRONWORKERS MATHEMATICS 1.5 UNITS

A review of and development of mathematical skills necessary to solve lineal and right triangle problems used in the construction industry. Emphasis is on shop floor applications and solving problems encountered during construction and fabrication. Use of measuring tools to help solve and verify solutions to mathematical problems. Prerequisite: Student is a registered State indentured apprentice and a member of Northern California Shop Ironworkers Local 790. 27 hours lecture.

Degree Applicable, Credit Grading Option: OP

APIW 53 WELDING TECHNOLOGY 3 UNITS

Mastery of manipulative skills used in welding technology. Emphasis on safe use and applications of shielded metal arc welding (SMAW) and flux cored arc welding (FCAW) to AISC and AWS codes and standards. Knowledge and safe use of welding power sources, welding equipment, oxy-fuel cutting systems and their applications. Electrode identification and usage in typical construction and structural applications. Skills necessary to pass a standard AWS welding

certification test. Prerequisite: Student is a registered State indentured apprentice and a member of Northern California Shop Ironworkers Local 790. 54 hours lecture.

Degree Applicable, Credit Grading Option: OP

APIW 54 STRUCTURAL I 3 UNITS

Layout and fitting of structural steel members including roof, floor; beam, tubing and pipe columns that meet quality requirements. Identification and use of structural shapes typical of the building and construction industry. Emphasis on interpretation of blueprints used in structural applications. Techniques skills and tools needed to provide accurate finished parts that meet blueprint and code requirements. Identification of pieces and parts to simplify shipping and assembly. Prerequisite: Student is a registered State indentured apprentice and a member of Northern California Shop Ironworkers Local 790. 54 hours lecture.

Degree Applicable, Credit Grading Option: OP

APIW 55 WORK PLACE SAFETY AND MACHINERY OPERATION/ LABOR STUDIES I 1.5 UNITS

This course provides the skills and knowledge the student needs to operate safely in the welding and structural fabrication environment. Identification and prevention of hazardous situations encountered in the shop and on the job site. Emphasis on safety and compliance with rules and workplace requirements. Operations of hand and power tools in a safe manner that leads to productivity and a safe workplace for all. Understanding and use of a MSDS in the welding work place. Prerequisite: Student is a registered State indentured apprentice and a member of Northern California Shop Ironworkers Local 790. 27 hours lecture.

Degree Applicable, Credit Grading Option: OP

APIW 56 STRUCTURAL II 3 UNITS

This course will cover the material and procedure for layout and fitting of structural steel members including trusses, left hand beams and columns, usage of transit for shop layout application and fastening procedures (bolts) used for shop assembly of structural steel. Emphasis on application of information derived from blueprints and included into a finished fabricated part. Use of jigs and fixtures in the manufacturing process. Use of the transit as a tool for layout and assembly, identification of transit components. Prerequisite: Student is a registered State indentured apprentice and a member of Northern California Shop Ironworkers Local 790. 54 hours lecture.

Degree Applicable, Credit Grading Option: OP

APIW 57 STRUCTURAL III 3 UNITS

Procedure for layout and fitting of structural steel members including trusses, left hand beams and columns with an emphasis on Pipe. Discussion of pipe size and schedule and their use on blueprints. Usage of transit for shop Pipe layout applications. Identification and fastening procedures for bolts used for shop assembly of structural steel. Use of templates as a tool to fabricate steel structural components. Application of geometry and mathematics in the layout of components and templates. Construction of transitions using triangulation. Prerequisite: Student is a registered State indentured apprentice and a member of Northern California Shop Ironworkers Local 790. 54 hours lecture.

Degree Applicable, Credit Grading Option: OP

APIW 58 WELDING CODE/AISC/ METALLURGY/LABOR STUDIES II 1.5 UNITS

Use and applications of AISC Code of Standard Practice for Steel buildings. Usage and applications of AWS Structural Welding Code D1.1. Inspection and Quality Control Procedures as they apply to codes and standards. Requirements for the quality control of fabrication, welding processes and inspection of fabricated structural steel products. Introduction to benefits of the Ironworker welfare plan, defined benefit pension plan as well as 401 A & K pension plan. Prerequisite: Student is a registered State indentured apprentice and a member of Northern California Shop Ironworkers Local 790. 27 hours lecture.

Degree Applicable, Credit Grading Option: OP

APIW 59 METAL STAIRS LAYOUT AND FABRICATION 3 UNITS

The principals and procedures relating to layout and fabrication of metal stairs. Emphasis on application of blueprint information to completed component. Use of proper tools and techniques to ensure quality layout, fit-up and fabrication. And requirements for finished stair construction including intermediate platforms and curved stringers. Understanding of right hand and left hand components as they relate to stair fabrication. Use mathematical calculations to determine the ratio of rise and run as they relate to stair stringer layout and fabrication. Prerequisite: Student is a registered State indentured apprentice and a member of Northern California Shop Ironworkers Local 790. 54 hours lecture.

Degree Applicable, Credit Grading Option: OP

APIW 60 METAL RAILING LAYOUT AND FABRICATION 3 UNITS

Techniques used to layout, fitting and fabrication of level, sloped and radius hand rail systems. Emphasis on pipe welding systems that attach to stairs in structures. Discussion of code requirements as they relate to top rails mid-rails and toe boards. Fabrication of jigs and fixtures to aid handrail fabrication and welding. Discussion of galvanizing as it relates to handrail requirements necessary to successfully galvanize a handrail component. Use of heat to straighten or form handrail components. Prerequisite: Student is a registered State indentured apprentice and a member of Northern California Shop Ironworkers Local 790. 54 hours lecture.

Degree Applicable, Credit Grading Option: OP

APIW 61 ORNAMENTAL METAL FABRICATION/STRUCTURAL IV 1.5 UNITS

Layout and fitting techniques used in the fabrication of ornamental metal components. Discussion of ferrous and nonferrous metals identification and their uses in ornamental metal fabrication. Techniques in brazing, silver solder and TIG welding of ornamental metal components. Finishing of nonferrous metals including polishing, graining coloring and painting. Finishing of the heat affected zone of welded metal products. Prerequisite: Student is a registered State indentured apprentice and a member of Northern California Shop Ironworkers Local 790. 27 hours lecture.

Degree Applicable, Credit Grading Option: OP

APIW 62 BLUEPRINT READING II 3 UNITS

Principles of reading and interpreting structural steel engineering design blueprints used to build steel frame buildings. Advanced reading and interpretation of structural steel fabrication blueprints used in industry. Emphasis of advanced drawings as a communication tool for complex structures. Advanced applications of shop floor usage of blueprints in structural fabrication. Prerequisite: Student is a registered State indentured apprentice and a member of Northern California Shop Ironworkers Local 790. 54 hours lecture.

Degree Applicable, Credit Grading Option: OP

APIW94 OCCUPATIONAL WORK EXPERIENCE IRONWORKERS APPRENTICESHIP 1-8 UNITS

College supervised on-the-job training. Apprenticeship work experience in an occupation related to student's apprenticeship program. Cooperative effort of the work supervisor, student, Joint Apprenticeship Training Council (JATC) or Program Sponsor, and instructor to achieve work-based learning objectives. Student must be enrolled in an apprenticeship program. Each Unit of Credit requires 75 hours of paid work experience. Students can earn 1 to 8 units per semester for a maximum of 16 units of Cooperative Work Experience, which includes General Work Experience and Occupational Work Experience/Internship. 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

ART

Art and technology are the yardsticks of civilization. In the case of visual art, ideas are conveyed through images and objects. Our program is designed to make the visual artist an effective communicator. Through a variety of courses offered, student artists learn how great drawings, paintings, designs, and sculpture are made. In addition, the human condition requires us to create. We have a need to express ourselves through visual media, doing so is as old as human culture itself. With a stronger understanding of art, we are more able to contribute to the art world at large, and express our ideas visually.

Programs of Study

Degrees:

- AA-T – Studio Art
- AA – Art: Emphasis in Painting

Career Opportunities

The art world has a vast number of opportunities ranging from jobs and careers in the private sector to self-made opportunities as a fine artist. Our program offers courses that could lead to a career in fine art, concept art, illustration, comic books, graphic design, architecture, industrial design, art history, art criticism, and animation.

AA-T – Studio Arts

About the Degree

This Associate in Arts in Studio Arts for Transfer degree is designed to prepare students for transfer to a CSU institution to continue their studies toward earning a B.A. in Art or Studio Arts. The students who earn a Studio Arts AA-T degree will have an understanding of art and design concepts, the ability to communicate using visual media, and will possess a portfolio of work reflecting their knowledge, techniques, and creativity gained during the course of study.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education - Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AA-T in Studio Arts, students are able to apply the basic principles of observational drawing and how to develop illusionary spatial constructions.
- Upon completion of the AA-T in Studio Arts, students are able to apply the principles and concepts of design.
- Upon completion of the AA-T in Studio Arts, students are able to demonstrate critical thinking as it applies to critique, evaluation and/or production of works of art.
- Upon completion of the AA-T in Studio Arts, students are able to demonstrate knowledge of the science of color perception and how it can be utilized in the creation of works of art.

Required Core: (12 Units)

ARHS 5 (Western Art History - Renaissance to Contemporary)	3
ARTS 2A (Introduction to Drawing)	3
ARTS 23 (2-D Design).....	3
ARTS 24 (3-D Design).....	3

List A: Select One (3 Units)

ARHS 3 (Arts of Africa, Oceania, and Indigenous North Americas)	3
ARHS 4 (Western Art History - Ancient to Medieval)	3
ARHS 8 (Asian Art History)	3

List B: Select One Course from Three Curricular Areas (9 Units)

Ceramics

ARTS 4A (Introduction to Ceramics)	3
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Color

GDDM 51 (Color Theory) or
ARTS 26 (Color Theory)3

Digital Art

GDDM 50 (Graphic Design/Digital Media Fundamentals)3

Drawing

ARTS 2B (Drawing and Composition)3
ARTS 3A (Figure and Composition I)3

Painting

ARTS 7A (Introduction to Watercolor Painting).....3
ARTS 12A (Oil/Acrylic Painting: Beginning I).....3

Photography

PHTO 50 (Introduction to Photography)3

Second Semester

ARTS 12B (Oil/Acrylic Painting: Beginning II)3

Total Units for the Major 24

Additional General Education and Elective Units..... 36

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AA – Art: Emphasis in Painting

About the Degree

The AA in Art: Emphasis in Painting provides students with broad exposure to art courses, allowing students to explore and refine their studio arts practice. This degree is designed for art majors in addition to those who are pursuing an arts education for its own merit.

Program Outcomes

- Upon completion of the AA in Art: Emphasis in Painting, students are able to apply creative thinking through the production of original artworks.
- Upon completion of the AA in Art: Emphasis in Painting, students are able to apply the principles of visual design for the communication and expression of ideas.
- Upon completion of the AA in Art: Emphasis in Painting, students are able to create works of art that synthesize quality technical execution with content and concept.
- Upon completion of the AA in Art: Emphasis in Painting, students are able to demonstrate technical proficiency in use of art media, tools, processes and technology.

Required Core: (27 Units)

ARHS 1 (Introduction to Art History)3
ARHS 4 (Western Art History - Ancient to Medieval)3
ARHS 5 (Western Art History - Renaissance to Contemporary)3
ARTS 2A (Introduction to Drawing).....3
ARTS 3A (Figure and Composition I) 3
ARTS 7A (Introduction to Watercolor Painting)..... 3
ARTS 12A (Oil/Acrylic Painting: Beginning I).....3
ARTS 23 (2-D Design)..... 3
ARTS 24 (3-D Design).....3

List A: Select Three (9 Units)

ARHS 3 (Arts of Africa, Oceania, and Indigenous North Americas)3
ARHS 6 (Museum & Gallery Techniques) 3
ARTS 2B (Drawing and Composition) 3
ARTS 3B (Figure and Composition II)3
ARTS 7B (Watercolor Painting).....3
ARTS 12B (Oil/Acrylic Painting: Beginning II)3

Total Units for the Major 36

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Art Courses (ARTS)

ARTS 2A INTRODUCTION TO DRAWING 3 UNITS

Introduction to principles, elements, and practices of drawing, employing a wide range of subject matter and drawing media. Focus on perceptually based drawing, observational skills, technical abilities, and creative responses to materials and subject matter. 27 hours lecture, 81 hours laboratory. Family: Art Drawing and Composition. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; C-ID# ARTS 110.

Degree Applicable, Credit Grading Option: OP

ARTS 2B DRAWING AND COMPOSITION 3 UNITS

Exploration of artistic concepts, styles, and creative expression related to intermediate-level drawing, focusing on complex subject matter and concepts using a variety of drawing mediums, techniques, and methodologies. Students in this course will build on fundamental drawing skills to develop personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches to drawing. Prerequisite: ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Family: Art Drawing and Composition. Transfer: CSU, UC; C-ID# ARTS 205.

Degree Applicable, Credit Grading Option: OP

ARTS 3A FIGURE AND COMPOSITION I 3 UNITS

Introduction to drawing the human figure from observation using a wide variety of drawing media and techniques. Topics include an introduction to human anatomy and the historical and contemporary roles of figure drawing in the visual arts. Students in this course will learn both descriptive and interpretive approaches to drawing the figure. Strongly Recommended: ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Family: Art Figure and Composition. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; C-ID# ARTS 200.

Degree Applicable, Credit Grading Option: OP

ARTS 3B FIGURE AND COMPOSITION II 3 UNITS

Development of knowledge and skills introduced in Arts 3A, with an emphasis on composition, color, and drawing the human figure from observation using a wide variety of drawing media and techniques. Topics include human anatomy and the historical and contemporary roles of figure drawing in the visual arts. Students in this course will learn both descriptive and interpretive approaches to drawing the figure. Prerequisite: ARTS 3A with a minimum grade of C. Strongly Recommended: ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Family: Art Figure and Composition. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

ARTS 3C FIGURE AND COMPOSITION III 3 UNITS

Advanced application of knowledge and skills introduced in Arts 3B, with emphasis on composition and drawing the human figure from observation using a wide variety of drawing media and techniques. Topics include human anatomy and the historical and contemporary roles of figure drawing in the visual arts. Students in this course will start to utilize personal approaches and media to drawing the figure. Prerequisite: ARTS 3B with a minimum grade of C. Strongly Recommended: ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Family: Art Figure and Composition. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

ARTS 3D FIGURE AND COMPOSITION IV 3 UNITS

Advanced application of knowledge and skills introduced in Arts 3C with further development of personal style. Topics include human anatomy and the historical and contemporary roles of figure drawing in the visual arts. Students in this course will learn both descriptive and interpretive approaches to drawing the figure. Prerequisite: ARTS 3C with a minimum grade of C. Strongly Recommended: ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Family: Art Figure and Composition. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

ARTS 4A INTRODUCTION TO CERAMICS 3 UNITS

Introduction to ceramics materials, concepts, and processes including basic design principles, creative development, hand-building, throwing, glaze techniques, firing and ceramic terminology. The course covers aesthetics and creative development of clay objects examining historical, contemporary, and personal modes of expression across cultures. 27 hours lecture, 81 hours laboratory. AA/

AS GE: III. Transfer: CSU, UC; CSU GE: C1.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

ARTS 4B INTERMEDIATE CERAMICS 3 UNITS

Further investigation into ceramics materials, concepts, and processes including basic design principles, creative development, hand-building, throwing, glaze techniques, firing and ceramic terminology. The course covers aesthetics and creative development of clay objects examining historical, contemporary, and personal modes of expression across cultures. Prerequisite: ARTS 4A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

ARTS 7A INTRODUCTION TO WATERCOLOR PAINTING 3 UNITS

Introduction to principles, elements, and practices of watercolor painting. Focus on exploration of painting materials, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter. Strongly Recommended: ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Family: Art Watercolor Painting. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; C-ID# ARTS 210.

Degree Applicable, Credit Grading Option: OP

ARTS 7B WATERCOLOR PAINTING 3 UNITS

Development of knowledge and skills introduced in Arts 7A with an emphasis on experimenting with the watercolor medium, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter. Prerequisite: ARTS 7A with a minimum grade of C. Strongly Recommended: ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Family: Art Watercolor Painting. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

ARTS 7C ADVANCED WATERCOLOR PAINTING I 3 UNITS

Development of knowledge and skills introduced in 7B directed towards individual needs with an emphasis on individual expression. Prerequisite: ARTS 7B with a minimum grade of C. Strongly Recommended: ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Family: Art Watercolor Painting. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

ARTS 7D ADVANCED WATERCOLOR PAINTING II 3 UNITS

Advanced projects in watercolor painting with emphasis on demonstrating functional competence and an intellectual understanding of personal ideas. Further development of knowledge and skills introduced in 7C directed towards individualized needs. Prerequisite: ARTS 7C with a minimum grade of C. Strongly Recommended: ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Family: Art Watercolor Painting. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

ARTS 12A OIL/ACRYLIC PAINTING: 3 UNITS
BEGINNING I

Introduction to painting using oil or acrylic paints. Students will apply the principles and elements of design, in addition to color theory, to their own paintings. Students will make studies from observation, study works by the masters, and learn to express their own ideas through painting. Strongly Recommended: ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Family: Art Oil Painting. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; C-ID# ARTS 210.

Degree Applicable, Credit Grading Option: OP

ARTS 12B OIL/ACRYLIC PAINTING: 3 UNITS
BEGINNING II

Second level course in painting using oil or acrylic paints. With the skills and knowledge gained in ARTS 12A, students will apply the principles and elements of design, in addition to color theory, to their own paintings. Students will make intermediate level studies from observation, study works by the masters, and learn to express their own ideas through painting. Prerequisite: ARTS 12A with a minimum grade of C. Strongly Recommended: ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Family: Art Oil Painting. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

ARTS 12C OIL/ACRYLIC PAINTING: 3 UNITS
ADVANCED I

Advanced projects in oil or acrylic painting with an emphasis on individual creative work and development of personal ideas and style. Prerequisite: ARTS 12B with a minimum grade of C. Strongly Recommended: ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Family: Art Oil Painting. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

ARTS 12D OIL/ACRYLIC PAINTING: 3 UNITS
ADVANCED II

Advanced projects in oil or acrylic painting with emphasis on developing ideas, skills, and knowledge. Students hone their painting through practice and critique; this course requires self direction. Prerequisite: ARTS 12C with a minimum grade of C. Strongly Recommended: ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Family: Art Oil Painting. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

ARTS 23 2-D DESIGN 3 UNITS

Introduction to the concepts, applications, and historical references related to 2-dimensional art and composition. Topics include the basic principles and elements of design. In this course, students will develop their visual vocabulary for creative visual expression through lectures and problem solving studio projects. Students explore aspects of 2-D Design through visual art assignments. 27 hours lecture, 81 hours laboratory. AA/AS GE: III. Transfer: CSU, UC; C-ID# ARTS 100.

Degree Applicable, Credit Grading Option: OP

ARTS 24 3-D DESIGN 3 UNITS

Introduction to the concepts, applications, and historical references related to 3-dimensional design and spatial composition, including the study of the elements and organizing principles of design as they apply to 3-dimensional space and form. Development of a visual vocabulary for creative expression through lecture presentations and use of appropriate materials for 3-dimensional studio projects. 27 hours lecture, 81 hours laboratory. Transfer: CSU, UC; C-ID# ARTS 101.

Degree Applicable, Credit Grading Option: OP

ARTS 26 COLOR THEORY 3 UNITS

A basic-level course highlighting color as an element for communication and expression in all visual fields. Covers key color systems and their relevance to graphic and other visual arts and creative and technical aspects of color. Students who have completed, or are enrolled in, GDDM 51 may not receive credit. 27 hours lecture, 81 hours laboratory. Transfer: CSU, UC; C-ID# ARTS 270.

Degree Applicable, Credit Grading Option: OP

ARTS 29 INDEPENDENT STUDY, 0.5-2 UNITS
STUDIO ARTS

For course information, see "Independent Studies". 27-108 hours laboratory.

ART HISTORY

Art History helps us to decipher the language of art so that we can uncover the stories of our past and present. The Art History program is designed to prepare students with the skills and knowledge to engage with artwork from around the world and across time. We offer courses in Western art history, Non-Western art history, and Museum and Gallery Studies. Our program also prepares students to transfer as an Art History major to a four-year institution. Art History courses can be taken in any order.

Programs of Study

Degrees:

- AA-T – Art History

Career Opportunities

The program prepares students for careers in the art world and beyond. Students may pursue jobs in education, arts organizations, or the private sector. Possible job opportunities include: gallery owner, art consultant, curator, and arts educator. In addition, the skills learned in the program, such as creative thinking, research and writing skills, and collaboration are in-demand job skills that can be transferred to a variety of job fields.

AA-T – Art History

About the Degree

The Associate in Arts in Art History for Transfer is designed for prospective California State University (CSU) transfer students who are preparing for careers in the field of Art History. Completion of the Art History Transfer degree will provide a streamlined pathway for transfer to a CSU campus with a Art History or similar major. Students should consult with a counselor to determine whether or not this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution; please see a counselor for details if you are pursuing transfer to the UC system.

Completion Requirements:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education - Breadth Requirements.
 - A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AA-T in Art History, students are able to recognize art's relationship to geography, cultural ideologies, and historical periods.
- Upon completion of the AA-T in Art History, students are able to identify and evaluate art historical styles, movements, and concepts.
- Upon completion of the AA-T in Art History, students are able to research and analyze visual artwork using interdisciplinary theories and methods.
- Upon completion of the AA-T in Art History, students are able to evaluate the artwork from different cultures and art historical periods.
- Upon completion of the AA-T in Art History, students are able to communicate concepts and ideas effectively through written, oral, and digital media.

Required Core: (9 Units)

ARHS 4 (Western Art History - Ancient to Medieval)	3
ARHS 5 (Western Art History - Renaissance to Contemporary)	3
ARTS 2A (Introduction to Drawing)	3

List A: Select One (3 Units)

ARHS 2 (Art of the Ancient Americas)	3
ARHS 3 (Arts of Africa, Oceania, and Indigenous North Americas)	3
ARHS 8 (Asian Art History)	3

List B: Select One (3 Units)

ARTS 2B (Drawing and Composition)	3
ARTS 3A (Figure and Composition I)	3
ARTS 4A (Introduction to Ceramics)	3
ARTS 7A (Introduction to Watercolor Painting)	3
ARTS 12A (Oil/Acrylic Painting: Beginning I)	3
ARTS 23 (2-D Design)	3
ARTS 24 (3-D Design)	3
GDDM 50 (Graphic Design/Digital Media Fundamentals)	3
PHTO 50 (Introduction to Photography)	3
PHTO 60 (Intermediate Black and White Photography)	3

List C: Select One (3 Units)

Any List A or B course not already used	3
ARHS 6 (Museum & Gallery Techniques)	3
ARHS 7 (Modern Art History)	3

Total Units for the Major 18

Additional General Education and Elective Units 42

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Recommended Electives: ANTR 3, 5, 7, 8, 12; ECE 79; FREN 2A, 2B; HIST 1, 2, 7, 8, 14, 25, 28, 32; HUMN 3, 4, 6, 7, 10, 28, 44; PHIL 1, 1H, 2, 2H, 3, 4, 5; RELS 1, 2, 3, 11; SPAN 2A, 2B, 22; WMST 2

Art History Courses (ARHS)

ARHS 1 INTRODUCTION TO ART HISTORY 3 UNITS

Architecture, sculpture, painting, photography and design in relation to human inventiveness in providing for material and aesthetic needs. This course provides a general introduction to art that offers a look at works of art through the study of theory, terminology, themes, design principles, media, techniques, with an introduction to the visual arts across time and diverse cultures. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A; C-ID# ARTH 100.

Degree Applicable, Credit Grading Option: OP

ARHS 2 ART OF THE ANCIENT AMERICAS 3 UNITS

Survey of visual culture within the historical context of select ancient civilizations in Mexico, Central American, and South America up to European contact. Strongly Recommended: ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

ARHS 3 ARTS OF AFRICA, OCEANIA, 3 UNITS

**AND INDIGENOUS NORTH
AMERICAS**

This course is an introduction to the visual arts produced by selected people of Africa, Oceania, and the Americas from the prehistoric to contemporary periods. The topics covered in the course are representative of the art and architecture produced by groups from Africa, Oceania and the Americas emphasizing how art is representative of the cultural, religious, social, or political orientation of each region. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit Grading Option: OP

**ARHS 4 WESTERN ART HISTORY - 3 UNITS
ANCIENT TO MEDIEVAL**

History of Western art from prehistoric times through Egyptian, Mesopotamian, Aegean, Greek, Etruscan, Roman, Early Christian, Byzantine, Medieval, Romanesque, and Gothic civilizations. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A; C-ID# ARTH 110.

Degree Applicable, Credit Grading Option: OP

**ARHS 5 WESTERN ART HISTORY - 3 UNITS
RENAISSANCE TO CONTEMPORARY**

History of Western art from Early Renaissance, High Renaissance, Mannerism, Baroque, Neoclassicism, Romanticism, Realism, Impressionism, Post-Impressionism, 20th Century developments of American art 21st century Globalism. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit Grading Option: OP

**ARHS 6 MUSEUM & GALLERY 3 UNITS
TECHNIQUES**

An examination of the methodology and technique of displaying visual art within a museum/gallery space. Opportunities to meet artists from the Bay Area and beyond, learn the meaning behind their artwork, and gain hands-on practice in a range of activities covering the presentation, handling, and security of original artwork in the LPC Center for the Arts Gallery. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

ARHS 7 MODERN ART HISTORY 3 UNITS

Presents an overview of the art movements, artists and issues of Modernism to Contemporary art. This includes art from the mid-nineteenth century, through the twentieth century and contemporary art. Incorporates the social, political, and aesthetic context of the time. Strongly Recommended: ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit Grading Option: OP

ARHS 8 ASIAN ART HISTORY 3 UNITS

Asian art history surveys the arts of India, China, Korea, and Japan.

The architecture, painting, sculpture, and other arts are examined within their religious and social contexts. Strongly Recommended: ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit Grading Option: OP

ASTRONOMY

Astronomy is the scientific study of celestial phenomena, including the solar system, stars, extra-solar planets, galaxies, and the evolution of the Universe. The Las Positas College astronomy program includes general education lecture and lab courses aimed at non-science majors. Students wishing to pursue a bachelor's degree in astronomy or astrophysics should complete an AS in Physics, and begin their coursework in astronomy or astrophysics after transferring to a four-year institution.

Astronomy Courses (ASTR)

**ASTR 10 INTRODUCTION TO 3 UNITS
ASTRONOMY: THE SOLAR SYSTEM**

Introduction to history and physical principles of astronomy, focusing on our Solar System. Includes: constellations; distance scales; historical development of astronomy; gravitation; motion of the Earth, Moon, and Planets; astronomical tools; formation and evolution of the solar system; physical properties, atmosphere, and evolution of the Earth, Moon, and planets within the solar system; asteroids, comets, and other small bodies; discovery of extra-solar planets; possibilities for life beyond Earth. Designed for non-majors in mathematics or a physical science. A companion science lab, Astronomy 30L, is also available. 54 hours lecture. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B1; IGETC: 5A.

Degree Applicable, Credit Grading Option: OP

**ASTR 20 INTRODUCTION TO 3 UNITS
ASTRONOMY: STARS AND
THE UNIVERSE**

Introduction to the study of stars, galaxies, and cosmology. Includes the nature of light and matter, telescopes, spectroscopy, stellar formation and evolution, galaxies, quasars, and cosmology. Designed for non-majors in mathematics or a physical science. A companion science lab, Astronomy 30L, is also available. 54 hours lecture. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B1; IGETC: 5A.

Degree Applicable, Credit Grading Option: OP

**ASTR 29 INDEPENDENT STUDY, 0.5-2 UNITS
ASTRONOMY**

For course information, see "Independent Studies". 27-108 hours laboratory.

Grading Option: GR

**ASTR 30L INTRODUCTION TO 1 UNIT
ASTRONOMY LAB**

Introduction to laboratory principles and techniques in astronomy.

Includes: observational techniques such as naked eye, binocular, and telescopic identification of stars, planets, constellations, and deep sky objects; telescope operation and imaging; spectroscopy, motions of the sun, moon and planets. Prerequisite: ASTR 10 with a minimum grade of C (May be taken concurrently) or ASTR 20 minimum grade of C (May be taken concurrently). 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B3; IGETC: 5C.

Degree Applicable, Credit Grading Option: OP

AUTOMOTIVE TECHNOLOGY

Automotive technicians are in high demand in California and throughout the U.S., but there is a lack of trained professionals to meet this demand. This shortage of well-trained technicians has been caused by advances in computerized engine controls, evolving emissions regulations, and development of alternative technologies driven by the ever-escalating cost of fuel. The Las Positas College Automotive Technology program can provide the skills necessary to qualify as trained entry-level technicians, as well as for career advancement. Students work side by side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Programs of Study

Degrees:

- AS – Automotive Alternative Fuels/Hybrid Technology
- AS – Automotive Electronics Technology
- AS – Automotive Light Duty Diesel
- AS – Automotive Master
- AS – Automotive Smog Technician

Certificates of Achievement:

- Automotive Alternative Fuels/Hybrid Technology
- Automotive Chassis
- Automotive Drivability
- Automotive Light Duty Diesel
- Automotive Master
- Automotive Mechanical
- Automotive Smog Technician

Career Opportunities

Las Positas College offers both the Associate degree and Certificate programs designed for direct job entry, which will give the student a thorough and complete knowledge of the basics of the modern automobile. These programs are for technical career majors. The Las Positas College Automotive program also provides training and services in a variety of programs in addition to regular classes: industry-standard training for General Motors, AC Delco, KIA, ICar and other manufacturers; Automotive Apprenticeship; Smog Certification; Alternative Fuels; State of California Bureau of Automotive Repair Smog Inspection Referee and Training Program. These additional programs provide our students with numerous opportunities for industry exposure. Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel. More information can be found at:

<http://www.laspositascollege.edu/AUTO/index.php>

AS – Automotive Alternative Fuels/ Hybrid Technology

About the Degree

The Associate of Science in Automotive Alternative Fuels/Hybrid Technology degree will provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. This program concentrates on Hybrid technologies which will allow students to gain employment with manufacturers. The current climate in the automotive industry has a focus on Hybrid training and this program will give our students a leg up on the competition. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel

Program Outcomes

- Upon completion of the AS in Automotive Alternative Fuels/Hybrid Technology, students are able to diagnose alternative fuel systems.
- Upon completion of the AS in Automotive Alternative Fuels/Hybrid Technology, students are able to perform high voltage disable procedures.
- Upon completion of the AS in Automotive Alternative Fuels/Hybrid Technology, students are able to apply safety procedures relating to alternative fuels and high voltage.

Required Core: (40 Units)

AUTO A1 (Engine Repair).....	4
AUTO A2 (Automatic Transmission/Transaxle).....	4
AUTO A3 (Manual Drive Train and Axles).....	4
AUTO A4 (Suspension and Steering).....	4
AUTO A5 (Brakes).....	4
AUTO A6 (Electrical/Electronic Systems).....	5
AUTO A7 (Automotive Heating and Air Conditioning).....	4
AUTO A8 (Engine Performance).....	5
AUTO LABA (Automotive Lab).....	2
AUTO L3 (Light Duty Hybrid/Electric Vehicles).....	4

List A: Select One (4 Units)

Option 1

AUTO INTR (Automotive Service and Introduction).....	4
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Option 2

AUTO INTL (Automotive Service and Introduction Hands-On Lab.....	2
and AUTO INTZ (Automotive Service and Introduction Lecture).....	2

Program-Based GE[^]: Select One (3 Units)

CMST 1 (Fundamentals of Public Speaking).....	3
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CMST 10 (Interpersonal Communication).....	3
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Total Units for the Major 44

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Automotive Electronics Technology

About the Degree

The LPC Automotive Electronics Technology degree can provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel

Program Outcomes

- Upon completion of the AS in Automotive Electronics Technology, students are able to follow safety guidelines while employed in an automotive related job.
- Upon completion of the AS in Automotive Electronics Technology, students are able to use automotive knowledge to diagnose various automotive concerns.

Required Core: (36 Units)

AUTO LABA (Automotive Lab).....	2
AUTO A1 (Engine Repair).....	4
AUTO A2(Automatic Transmission/Transaxle).....	4
AUTO A3 (Manual Drive Train and Axles).....	4
AUTO A4 Suspension and Steering).....	4
AUTO A5 (Brakes).....	4
AUTO A6 (Electrical/Electronic Systems).....	5
AUTO A7 (Automotive Heating and Air Conditioning).....	4
AUTO A8 (Engine Performance).....	5

List A: Select One (5 Units)

AUTO L1 (Advanced Engine Performance)	5
AUTO SDR (Specified Diagnostic and Repair).....	5

List B: Select One (4 Units)

Option 1

AUTO INTR (Automotive Service and Introduction)	4
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Option 2

AUTO INTL (Automotive Service and Introduction Hands-On Lab	2
and AUTO INTZ (Automotive Service and Introduction Lecture)	2

Program-Based GE[^]: Select One (3 Units)

CMST 1 (Fundamentals of Public Speaking)	3
CMST 10 (Interpersonal Communication).....	3

Total Units for the Major 45

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Automotive Light Duty Diesel

About the Degree

The Associate of Science in Automotive Light Duty Diesel degree can provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. Diesel technology is currently on the forefront of the automotive industry with the addition of several small diesel engines to the line up from most manufacturers. The emissions system on diesel are very complicated and this program will allow student to learn the emissions and drivability of diesel powered vehicles. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel

Program Outcomes

- Upon completion of the AS in Automotive Light Duty Diesel, students are able to diagnose electronic diesel systems.
- Upon completion of the AS in Automotive Light Duty Diesel, students are able to repair diesel engine mechanical systems.
- Upon completion of the AS in Automotive Light Duty Diesel, students are able to diagnose and repair diesel turbo systems.

Required Core: (40 Units)

AUTO LABA (Automotive Lab)	2
AUTO A1 (Engine Repair).....	4
AUTO A2 (Automatic Transmission/Transaxle).....	4
AUTO A3 (Manual Drive Train and Axles).....	4
AUTO A4 (Suspension and Steering)	4
AUTO A5 (Brakes).....	4
AUTO A6 (Electrical/Electronic Systems)	5
AUTO A7 (Automotive Heating and Air Conditioning)	4
AUTO A8 (Engine Performance)	5
AUTO A9 (Light Vehicle Diesel Engines).....	4

List A: Select One (4 Units)

Option 1

AUTO INTR (Automotive Service and Introduction).....	4
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Option 2

AUTO INTL (Automotive Service and Introduction Hands-On Lab	2
and AUTO INTZ (Automotive Service and Introduction Lecture)	2

Program-Based GE[^]: Select One (3 Units)

CMST 1 (Fundamentals of Public Speaking)	3
CMST 10 (Interpersonal Communication).....	3

Total Units for the Major 44

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Automotive Master

About the Degree

The Associate of Science in Automotive Master degree will provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. This program follows ASE and NATEF for the requirements of a Master automotive technician. It will create a pathway for students to become master ASE certified. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel

Program Outcomes

- Upon completion of AS in Automotive Master, students are able to diagnose engine mechanical issues.

Required Core: (61.5 Units)

AUTO A1 (Engine Repair).....	4
AUTO A2 (Automatic Transmission/Transaxle).....	4
AUTO A3 (Manual Drive Train and Axles).....	4
AUTO A4 (Suspension and Steering).....	4
AUTO A5 (Brakes).....	4
AUTO A6 (Electrical/Electronic Systems).....	5
AUTO A7 (Automotive Heating and Air Conditioning).....	4
AUTO A8 (Engine Performance).....	5
AUTO A9 (Light Vehicle Diesel Engines).....	4
AUTO LABA (Automotive Lab).....	2
AUTO LABB (Automotive Lab Advanced).....	2
AUTO L1 (Advanced Engine Performance).....	5
AUTO L1L2 (Smog Level One and Level Two).....	5.5
AUTO L3 (Light Duty Hybrid/Electric Vehicles).....	4
AUTO SDR (Specified Diagnostic and Repair).....	5

List A: Select One (4 Units)

Option 1

AUTO INTR (Automotive Service and Introduction).....	4
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Option 2

AUTO INTL (Automotive Service and Introduction Hands-On Lab.....	2
and AUTO INTZ (Automotive Service and Introduction Lecture).....	2

Program-Based GE[△]: Select One (3 Units)

CMST 1 (Fundamentals of Public Speaking).....	3
CMST 10 (Interpersonal Communication).....	3

Total Units for the Major 65.5

[△]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete

the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Automotive Smog Technician

About the Degree

The Associate of Science in Automotive Smog Technician degree will provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel

Program Outcomes

- Upon completion of the AS in Automotive Smog Technician, students are able to apply for and take the California Smog test.
- Upon completion of the AS in Automotive Smog Technician, students are able to diagnose advanced emission issues using five gas.
- Upon completion of the AS in Automotive Smog Technician, students are able to diagnose high level engine mechanical issues using engine scanners.

Required Core: (42.5 Units)

AUTO A1 (Engine Repair).....	4
AUTO A2 (Automatic Transmission/Transaxle).....	4
AUTO A3 (Manual Drive Train and Axles).....	4
AUTO A4 (Suspension and Steering).....	4
AUTO A5 (Brakes).....	4
AUTO A6 (Electrical/Electronic Systems).....	5
AUTO A8 (Engine Performance).....	5
AUTO LABA (Automotive Lab).....	2
AUTO L1L2 (Smog Level One and Level Two).....	5.5
AUTO SDR (Specified Diagnostic and Repair).....	5

List A: Select One (4 Units)

Option 1

AUTO INTR (Automotive Service and Introduction).....	4
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Option 2

AUTO INTL (Automotive Service and Introduction Hands-On Lab	2
and AUTO INTZ (Automotive Service and Introduction Lecture)	2

Program-Based GE[^]: Select One (3 Units)

CMST 1 (Fundamentals of Public Speaking)	3
CMST 10 (Interpersonal Communication)	3

Total Units for the Major 46.5

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

**Certificate of Achievement
Automotive Alternative Fuels/Hybrid
Technology**

About the Certificate

The Automotive Alternative Fuels/Hybrid Technology Certificate of Achievement will provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. This program concentrates on Hybrid technologies which will allow students to gain employment with manufacturers. The current climate in the automotive industry has a focus on Hybrid training and this program will give our students a leg up on the competition. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel

Program Outcomes

- Upon completion of the Certificate of Achievement in Automotive Alternative Fuels/Hybrid Technology, students are able to diagnose alternative fuel systems.
- Upon completion of the Certificate of Achievement in Automotive Alternative Fuels/Hybrid Technology, students are able to perform high voltage disable procedures.

- Upon completion of the Certificate of Achievement in Automotive Alternative Fuels/Hybrid Technology, students are able to apply safety procedures relating to alternative fuels and high voltage.

Required Core: (24 Units)

AUTO LABA (Automotive Lab)	2
AUTO A1 (Engine Repair)	4
AUTO A2 (Automatic Transmission/Transaxle)	4
AUTO A6 (Electrical/Electronic Systems)	5
AUTO A8 (Engine Performance)	5
AUTO L3 (Light Duty Hybrid/Electric Vehicles)	4

List A: Select One (4 Units)

Option 1

AUTO INTR (Automotive Service and Introduction)	4
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Option 2

AUTO INTL (Automotive Service and Introduction Hands-On Lab	2
and AUTO INTZ (Automotive Service and Introduction Lecture)	2

Total Units 28

**Certificate of Achievement
Automotive Chassis**

About the Certificate

The LPC Automotive Certificates can provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Program Outcomes

- Upon completion of the Certificate of Achievement in Automotive Chassis, students are able to follow safety guidelines while employed in an automotive related job.
- Upon completion of the Certificate of Achievement in Automotive Chassis, students are able to use automotive knowledge to diagnose various automotive concerns.

Required Core: (19 Units)

AUTO LABA (Automotive Lab)	2
AUTO A4 (Suspension and Steering)	4
AUTO A5 (Brakes)	4
AUTO A6 (Electrical/Electronic Systems)	5
AUTO A7 (Automotive Heating and Air Conditioning)	4

List A: Select One (4 Units)

Option 1

AUTO INTR (Automotive Service and Introduction)	4
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Option 2

AUTO INTL (Automotive Service and Introduction	
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Hands-On Lab	2
and AUTO INTZ (Automotive Service and Introduction Lecture)	2

Total Units 23

Certificate of Achievement Automotive Drivability

About the Certificate

The LPC Automotive Certificates can provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Program Outcomes

- Upon completion of the Certificate of Achievement in Automotive Drivability, students are able to use automotive knowledge to diagnose various automotive concerns.
- Upon completion of the Certificate of Achievement in Automotive Drivability, students are able to follow safety guidelines while employed in an automotive related job.

Required Core: (25 Units)

AUTO LABA (Automotive Lab)	2
AUTO A1 (Engine Repair).....	4
AUTO A6 (Electrical/Electronic Systems)	5
AUTO A8 (Engine Performance)	5
AUTO L1 (Advanced Engine Performance)	5
AUTO L3 (Light Duty Hybrid/Electric Vehicles).....	4

List A: Select One (4 Units)

Option 1

AUTO INTR (Automotive Service and Introduction)	4
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Option 2

AUTO INTL (Automotive Service and Introduction Hands-On Lab	2
and AUTO INTZ (Automotive Service and Introduction Lecture)	2

Total Units 29

Certificate of Achievement Automotive Light Duty Diesel

About the Certificate

The Automotive Light Duty Diesel Certificate of Achievement can provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. Diesel technology is currently on the forefront of the automotive industry with the addition of several small diesel engines to the line up from most manufacturers. The emissions system on diesel are very complicated and this program will allow student to learn the emissions and

drivability of diesel powered vehicles. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel

Program Outcomes

- Upon completion of the Certificate of Achievement in Automotive Light Duty Diesel, students are able to diagnose electronic diesel systems.
- Upon completion of the Certificate of Achievement in Automotive Light Duty Diesel, students are able to repair diesel engine mechanical systems.
- Upon completion of the Certificate of Achievement in Automotive Light Duty Diesel, students are able to diagnose and repair diesel turbo systems.

Required Core: (29 Units)

AUTO LABA (Automotive Lab)	2
AUTO A1 (Engine Repair).....	4
AUTO A2 (Automatic Transmission/Transaxle).....	4
AUTO A6 (Electrical/Electronic Systems)	5
AUTO A8 (Engine Performance)	5
AUTO A9 (Light Vehicle Diesel Engines)	4
AUTO L1 (Advanced Engine Performance)	5

List A: Select One (4 Units)

Option 1

AUTO INTR (Automotive Service and Introduction).....	4
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Option 2

AUTO INTL (Automotive Service and Introduction Hands-On Lab	2
and AUTO INTZ (Automotive Service and Introduction Lecture)	2

Total Units 33

Certificate of Achievement Automotive Master

About the Certificate

The LPC Automotive Master Certificate can provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel

Program Outcomes

- Upon completion of Certificate of Achievement in Automotive Master, students are able to diagnose engine mechanical issues.
- Upon completion of Certificate of Achievement in Automotive Master, students are able to diagnose electrical issues.
- Upon completion of Certificate of Achievement in Automotive Master, students are able to diagnose emission issues.

Required Core: (56 Units)

AUTO LABA (Automotive Lab)	2
AUTO LABB (Automotive Lab Advanced).....	2
AUTO L1 (Advanced Engine Performance).....	5
AUTO L3 (Light Duty Hybrid/Electric Vehicles).....	4
AUTO A1 (Engine Repair).....	4
AUTO A2 (Automatic Transmission/Transaxle).....	4
AUTO A3 (Manual Drive Train and Axles).....	4
AUTO A4 (Suspension and Steering).....	4
AUTO A5 (Brakes).....	4
AUTO A6 (Electrical/Electronic Systems)	5
AUTO A7 (Automotive Heating and Air Conditioning)	4
AUTO A8 (Engine Performance)	5
AUTO A9 (Light Vehicle Diesel Engines).....	4
AUTO SDR (Specified Diagnostic and Repair).....	5

List A: Select One (4 Units)

Option 1

AUTO INTR (Automotive Service and Introduction).....	4
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Option 2

AUTO INTL (Automotive Service and Introduction Hands-On Lab	2
and AUTO INTZ (Automotive Service and Introduction Lecture)	2

Total Units	60
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Certificate of Achievement Automotive Mechanical

About the Certificate

The Automotive Mechanical Certificate of Achievement can provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. This program focuses on the mechanical side of the automobile. Students who would like to gain employment at aftermarket shops could take this program and excel in a shop that services many types of vehicles from multiple manufacturers. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel

Program Outcomes

- Upon completion of the Certificate of Achievement in Automotive Mechanical, students are able to diagnose engine mechanical issues.
- Upon completion of the Certificate of Achievement in Automotive Mechanical, students are able to measure engine components and compare to specifications.
- Upon completion of the Certificate of Achievement in Automotive Mechanical, students are able to tear down, inspect and reassemble engines.

Required Core: (19 Units)

AUTO LABA (Automotive Lab)	2
AUTO A1 (Engine Repair).....	4
AUTO A2 (Automatic Transmission/Transaxle).....	4
AUTO A3 (Manual Drive Train and Axles).....	4
AUTO A6 (Electrical/Electronic Systems)	5

List A: Select One (4 Units)

Option 1

AUTO INTR (Automotive Service and Introduction).....	4
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Option 2

AUTO INTL (Automotive Service and Introduction Hands-On Lab	2
and AUTO INTZ (Automotive Service and Introduction Lecture)	2

Total Units	23
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Certificate of Achievement Automotive Smog Technician

About the Certificate

The Automotive Smog Technician Certificate of Achievement will provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. This program focuses on the rules and regulations of the California Smog Program and will prepare student to gain their California Smog licenses. This programs focus is on the diagnosis and repair of smog controlled vehicles in California. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel

Program Outcomes

- Upon completion of the Certificate of Achievement in Automotive Smog Technician, students are able to apply for and take the California Smog test.
- Upon completion of the Certificate of Achievement in Automotive Smog Technician, students are able to diagnose emission issues.

- Upon completion of the Certificate of Achievement in Automotive Smog Technician, students are able to diagnose engine mechanical issues.

Required Core: (25.5 Units)

AUTO LABA (Automotive Lab)	2
AUTO A1 (Engine Repair).....	4
AUTO A2 (Automatic Transmission/Transaxle).....	4
AUTO A6 (Electrical/Electronic Systems)	5
AUTO L1L2 (Smog Level One and Level Two)	5.5
AUTO SDR (Specified Diagnostic and Repair).....	5

List A: Select One (4 Units)

Option 1

AUTO INTR (Automotive Service and Introduction).....	4
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Option 2

AUTO INTL (Automotive Service and Introduction Hands-On Lab	2
and AUTO INTZ (Automotive Service and Introduction Lecture)	2

Total Units	29.5
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**Automotive Technology Courses
(AUTO)**

AUTO A1 ENGINE REPAIR 4 UNITS

An in depth study of engines: mechanical, measurement, and assembly. A study of the above mentioned components including theory, teardown, evaluate, qualifying, and rebuilding. This class' emphasis is on engines. Students are encouraged to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 36 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**AUTO A2 AUTOMATIC TRANSMISSION/
TRANSAXLE 4 UNITS**

An in depth study of engine, transmission, transaxles: mechanical, measurement, and assembly. An in-depth study of the above mentioned components including theory, teardown, evaluate, qualifying, and rebuilding. Students are encouraged to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 36 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO A3 MANUAL DRIVE TRAIN 4 UNITS

AND AXLES

An in-depth study of rear axle, front axle, and transfer cases: mechanical, measurement, and assembly. Including theory, teardown, qualifying, and rebuilding. Students are encouraged to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 36 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO A4 SUSPENSION AND STEERING 4 UNITS

Diagnosis, evaluation, testing, adjustment, alignment and repair of steering and suspension systems. Including all common automotive steering and suspension systems both car and truck. Future systems will also be covered. Students are strongly recommended to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 36 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO A5 BRAKES 4 UNITS

Diagnosis, evaluation, inspection, adjustment, and repair of braking, antilock braking systems, traction control and related devices. Class will involve California State law regarding brake and safety inspections. Includes the material on the California Brake Adjuster's Licensing Examination. Students are strongly recommended to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 36 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**AUTO A6 ELECTRICAL/ELECTRONIC
SYSTEMS 5 UNITS**

Automotive electrical/electronic systems, including electrical circuits, Ohm's Law, battery, starting, charging, ignition, fuel, accessories, brakes, chassis, suspension, steering, HVAC, and wiring systems. Emphasis on diagnosis of electrical troubles, assembly, repair of components, and diagnostic equipment usage. Students are strongly recommended to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently).

54 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO A7 AUTOMOTIVE HEATING AND AIR CONDITIONING 4 UNITS

Diagnosing, evaluation, testing, adjustment, and repair of heating, ventilation and air conditioning (HVAC). Includes heat and energy, psychometrics, air flow, refrigerant recycling, equipment and controls. Student will be prepared to pass a nationally recognized HVAC certificate program, required by all California HVAC repair shops. Students are strongly recommended to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 36 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO A8 ENGINE PERFORMANCE 5 UNITS

Principals of automotive fuel induction, ignition and emission control systems, including inspection, diagnosis and repair of fuel and emission control systems/components governed by federal and state laws and standards. Electrical diagnosis of emission control systems. Relation of chassis and body systems to emissions. Students are strongly recommended to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 54 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO A9 LIGHT VEHICLE DIESEL ENGINES 4 UNITS

An in depth study of diesel engines: mechanical, measurement, and assembly. A study of the above mentioned components including theory, teardown, evaluate, qualifying, and rebuilding. Diesel engine performance including emissions, turbos, exhaust and intake systems. This class' emphasis is on diesel engines and diesel engine performance/emissions. Students are encouraged to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 36 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO C1 AUTOMOBILE SERVICE CONSULTANT 3 UNITS

Automotive Service Consultant fundamentals including: Communications, customer service, legal documents, business interactions, billing, parts and labor guides, shop management applications, shop operations, sales, vehicle identification and systems operations. Course content is aligned with tasks identified by Automotive Service Excellence (ASE) certification. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO INTRO AUTOMOBILE SERVICE AND INTRODUCTION 4 UNITS

Bumper-to-Bumper Automotive Knowledge. Starting with hazardous waste handling, tool identification, maintenance and lubrication, moving into engine mechanical, emissions controls, suspension systems, air conditioning, airbags and safety, transmissions, axles, and finishing off with the future of the automotive industry. This is an introductory class for people who want to know more about their vehicle or who are planning an automotive career. 36 Lecture hours, 72 laboratory hours.

Degree Applicable, Credit Grading Option: OP

AUTO INTL AUTOMOTIVE SERVICE AND INTRODUCTION HANDS-ON LAB 2 UNITS

This is the Lab section that can only be taken if you are also taking INTZ. Bumper-to-Bumper Automotive Knowledge. Starting with hazardous waste handling, tool identification, maintenance and lubrication, moving into engine mechanical, emissions controls, suspension systems, air conditioning, airbags and safety, transmissions, axles, and finishing off with the future of the automotive industry. This is an introductory class for people who want to know more about their vehicle or who are planning an automotive career. Corequisite: AUTO INTZ - Automotive Service and Introduction Lecture. 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO INTZ AUTOMOTIVE SERVICE AND INTRODUCTION LECTURE 2 UNITS

This class is lecture only, AUTO INTL must also be taken concurrently. Bumper-to-Bumper Automotive Knowledge. Starting with hazardous waste handling, tool identification, maintenance, and lubrication, moving into engine mechanical, emissions controls, suspension systems, air conditioning, airbags and safety, transmissions, axles, and finishing off with the future of the automotive industry. This is an introductory class for people who want to know more about their vehicle or who are planning an automotive career. Corequisite AUTO INTL - Automotive Service and Introduction Hands-On Lab. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO LABA AUTOMOTIVE LAB 2 UNITS

Automotive Lab is an open laboratory class for basic automotive students. This class is for students desiring to expand their hands-on experience using their own vehicle. Instructor will provide technical and supervisory support to guide students in completion of their self initiated projects. Service information via computer service manuals will be available for students to use for vehicle information and research. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO LABB AUTOMOTIVE LAB ADVANCED 2 UNITS

Automotive Lab Advanced is an open laboratory class for advanced automotive students. This class is for students desiring to expand their hands-on experience using their own vehicle. Instructor will provide technical and supervisory support to guide students in completion of their self-initiated projects. Students are expected to help others in class and be able to work without guidance. Service information via computer service manuals will be available for students to use for vehicle information and research. Class is recommended for second year students only. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO L1 ADVANCED ENGINE PERFORMANCE 5 UNITS

Continuation of Automotive Technology A6 and A8 with an emphasis on diagnosis of electronic problems including computer controlled circuits/systems using schematics, diagnostic procedures and equipment. Students are strongly recommended to enroll in Automotive Lab concurrently. Prerequisite: AUTO A6 with a minimum grade of C (May be taken concurrently) or NAUT A6 with a minimum grade of C (May be taken concurrently) or AUTO A8 with a minimum grade of C (May be taken concurrently). 54 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO L1L2 SMOG LEVEL ONE AND LEVEL TWO 5.5 UNITS

This class includes classes/modules the State of California requires for a student/automotive technician to be prepared to take their Smog License Test. This class will include Level One and Level Two smog training only. At the end of the class students may or may not qualify for either EI or EO smog license. See www.smogcheck.ca.gov for more information. 90 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO L3 LIGHT DUTY HYBRID/ELECTRIC VEHICLES 4 UNITS

A study in the history, current and future of alternative fuels, hybrids and electric vehicles in the automotive industry. Emphasis in shop safety, hazardous waste handling, high voltage electrical precautions, basic engine construction of hybrids, battery storage systems, fuel storage systems, compressed natural gas, liquid propane gas, bio-diesel and hydrogen cell technology. Students are strongly recommended to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 36 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO P1 POWERTRAINS: MODIFICATIONS FOR PERFORMANCE 4 UNITS

An in-depth study of engine and transmission modifications made in order to improve performance. This class will explain the differences in laws governing vehicles in all fifty states including those registered in California; how to improve performance legally; and the penalties of breaking the law. Students will learn to calculate the benefit versus cost of bolt-on performance products and major engine or transmission modifications. NOTE: Some modifications are intended for off-road applications only. Students are encouraged to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 54 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO SDR SPECIFIED DIAGNOSTIC AND REPAIR 5 UNITS

This is a Bureau of Automotive Repair approved alternative to the ASE A6, A8 and L1 certification required for obtaining and maintaining smog technician licenses. This course will follow BAR guidelines for smog license prep. Student may or may not qualify for license exam after taking this class. For more information see www.smogcheck.ca.gov. 72 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

BIOLOGICAL SCIENCES

The Biology Program provides a diverse array of educational opportunities to meet the needs of our community. Academic pathways are available for students seeking transfer to four-year institutions, an AA degree in Biology, an AA degree in Biology: Allied Health, pre-nursing and pre-dental hygiene program preparation, or pre-professional coursework (e.g., medicine, pharmacy, radiology, optometry, paramedic, veterinary). Additionally, the program offers courses required for various AA/AS degrees and certificates (e.g., Horticulture, Kinesiology, Psychology, Viticulture/Enology), and to meet general education requirements. More information can be found at: <http://www.laspositascollege.edu/biology/index.php>

The coursework required for the AA in Biology, provides foundational knowledge and hands-on experiences across all levels of biology, from the molecular to the ecological.

The coursework for the AA in Biology: Allied Health with the basic understanding of human anatomy and physiology, along with an overview of microbiology that impacts humans.

The coursework required for the AS-T Biology degree prepares students for seamless transfer into the CSU system to complete a baccalaureate degree in biology or similar major.

The coursework required for the AS - Biology UC Pathway degree prepares students for seamless transfer into a biology major at a University of California campus.

The coursework required for the AA - Computational Biology degree trains students entering careers that require the interpretation and analysis of large amounts of biological data.

Programs of Study

Degrees:

- AS-T – Biology
- AA – Biology
- AA – Biology: Allied Health
- AS – Biology UC Pathway
- AA – Computational Biology

Certificates of Achievement:

- Biology UC Pathway
- Computational Biology

AS-T – Biology

About the Degree

The Las Positas College Biology program offers courses that lead to an Associate of Science in Biology for Transfer degree. The

Associate of Science in Biology for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Biology or similar major. The major requirements for this degree align with the Intersegmental Transfer Model Curriculum (TMC) for Biology. Students will have guaranteed admission to a California State University (CSU) campus upon successful completion of the program requirements. Students should consult with a counselor to determine whether or not this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution. The course work required for the AS-T in Biology provides foundational knowledge and hands-on experiences across all levels of biology, from the molecular to the ecological.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) for STEM.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Career Opportunities

Various areas of specialization are available to biologists in academia, industry, manufacturing, education, health care, natural resource management, public policy, consulting, administration, and organizations such as zoos, aquaria, museums, and parks. Some of the many possibilities for careers include veterinarian, doctor, physical therapist, research scientist, biotechnologist, plant pathologist, surgeon, environmental consultant, genetic counselor, lab technician, physician assistant, and wildlife biologist. Preparation for entry level jobs in these and other areas generally require a bachelor's degree in biology.

Program Outcomes

- Upon completion of an AS-T in Biology, students are able to explain and apply basic principles and processes of biology at different levels, from the biochemical to the ecological.
- Upon completion of an AS-T in Biology, students are able to design, conduct, analyze, and/or report results of investigations and experiments in the laboratory and/or field.
- Upon completion of an AS-T in Biology, students are proficient in standard biology lab techniques and lab safety procedures.

Required Core: (15 Units)

BIO 1A (General Botany).....	5
BIO 1B (General Zoology)	5
BIO 1C (Cell and Molecular Biology).....	5

List A: (23 Units)

CHEM 1A (General College Chemistry I).....	5
CHEM 1B (General College Chemistry II).....	5
PHYS 2A (Introduction to Physics I).....	4
PHYS 2B (Introduction to Physics II).....	4
MATH 1 (Calculus I).....	5

Total Units for the Major 38

Additional *General Education and Elective Units 22

Total Units 60

**IGETC for CSU only. Please see a counselor for questions.*

See the Las Positas College Intersegmental General Education Transfer Curriculum (for CSU) for STEM pattern for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AA – Biology

About the Degree

The Associate of Arts in Biology degree is designed to prepare students for transfer, but also provides entry-level opportunities for laboratory technicians in industry and the academic environment. The coursework provides foundational knowledge and hands-on experiences across all levels of biology, from the molecular to the ecological. It also provides students with the basic understanding of human anatomy and physiology, along with an overview of microbiology that impacts humans.

Program Outcomes

- Upon completion of an AA in Biology, students are able to explain and apply basic principles and processes of biology at different levels, from the biochemical to the ecological.
- Upon completion of an AA in Biology, students are able to design, conduct, analyze, and/or report results of investigations and experiments in the laboratory and/or field.
- Upon completion of an AA in Biology, students are proficient in standard biology lab techniques and lab safety procedures.

Required Core: (33 Units)

BIO 1A (General Botany).....	5
BIO 1B (General Zoology).....	5
BIO 1C (Cell and Molecular Biology).....	5
CHEM 1A (General College Chemistry I).....	5
CHEM 1B (General College Chemistry II).....	5
PHYS 2A (Introduction to Physics I).....	4
PHYS 2B (Introduction to Physics II).....	4

Total Units for the Major 33

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas

College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AA – Biology: Allied Health

About the Degree

The Associate of Arts in Biology: Allied Health degree provides courses that are required for students entering nursing school or other programs in Allied Health fields, such as dental hygiene, radiology, surgical technician, kinesiology, physical therapy, occupational therapy, emergency medical technician, paramedic, medical assisting, and health information technology.

Program Outcomes

- Upon completion of an AA in Biology: Allied Health, students are able to explain and apply the basic processes of homeostasis in humans from the cellular to the organismal level.
- Upon completion of an AA in Biology: Allied Health, students are able to conduct, analyze, and report results of experiments.
- Upon completion of an AA in Biology: Allied Health, students are proficient in standard biology lab techniques and lab safety procedure.

Required Core: (27 Units)

BIO 7A (Human Anatomy).....	5
BIO 7B (Human Physiology).....	5
BIO 7C (Microbiology).....	5
BIO 30 (Introduction to College Biology).....	4
CHEM 30A (Introductory and Applied Chemistry I).....	4
CHEM 30B (Introductory and Applied Chemistry II).....	4

Total Units for the Major 27

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Biology UC Pathway

About the Degree

The Biology UC Pathway Associate of Science degree is designed to prepare students for a seamless transfer into a biology major at a University of California campus. The degree also provides entry-level opportunities for laboratory technicians in industry and the academic environment. The coursework provides foundational knowledge and hands-on experiences across all levels of biology, from the molecular to the ecological. The primary difference between the Biology UC Pathway Associate of Science degree and the Associate in Science in Biology for Transfer (AS-T) degree is that the Biology UC Pathway Associate of Science degree follows the UC Transfer Pathway for admission as a biology major to University of California campuses. The transfer pathway is different for University of California and California State University campuses. If you plan to complete a baccalaureate degree related to biology (for example, Evolution and Ecology, Wildlife Biology, Genetics, etc.) then it is essential that the student also refer to the catalog of the prospective transfer institution and consult a counselor.

Career Opportunities

Various areas of specialization are available to biologists in academia, industry, manufacturing, education, health care, natural resource management, public policy, consulting, administration, and organizations such as zoos, aquaria, museums, and parks. Some of the many possibilities for careers include veterinarian, doctor, physical therapist, research scientist, biotechnologist, plant pathologist, surgeon, environmental consultant, genetic counselor, lab technician, physician assistant, and wildlife biologist. Preparation for entry level jobs in these and other areas generally require a bachelor's degree in biology.

Program Outcomes

- Upon completion of an AS in Biology UC Pathway, students are able to explain and apply basic principles and processes of biology at different levels, from the biochemical to the ecological.
- Upon completion of an AS in Biology UC Pathway, students are able to design, conduct, analyze, and/or report results of investigations and experiments in the laboratory and/or field.
- Upon completion of an AS in Biology UC Pathway, students are proficient in standard biology lab techniques and lab safety procedures.

Required Core: (45 Units)

BIO 1A (General Botany).....	5
BIO 1B (General Zoology).....	5
BIO 1C (Cell and Molecular Biology).....	5
CHEM 1A (General College Chemistry I).....	5
CHEM 1B (General College Chemistry II).....	5
CHEM 12A (Organic Chemistry I).....	5
CHEM 12B (Organic Chemistry II).....	5
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II).....	5

Program-Based GE[^]: (3 Units)

ANTR 5 (Cultures of the U.S. in Global Perspective).....	3
CMST 1 (Fundamentals of Public Speaking).....	3
GS 1 (Introduction to Global Studies).....	3
HEA 7 (Introduction to Public Health).....	3
SOC 5 (Introduction to Global Studies).....	3

Total Units for the Major 45

[^] Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Credit Courses and Programs

AA – Computational Biology

About the Degree

Computational Biology uses data analysis, mathematical modeling, and computational simulation techniques to understand complex biological systems. The Computational Biology degree provides coursework designed to train students entering careers that require the interpretation and analysis of large amounts of biological data. The objective of the degree is to acquire skills in computer science, biology and statistics that can be applied to bioinformatics. Career opportunities for students with an Associate of Arts in Computational Biology may include employment with pharmaceutical companies, scientific software companies, academic research and biotechnology companies. Students may also wish to transfer to a university for a BA/BS degree in Computational Biology, Biotechnology, Bioinformatics, or related field. Students transferring to a university are recommended to meet with a counselor and contact their transfer institution as some universities require additional computer science courses.

Career Opportunities

Pharmaceutical companies, scientific software, companies biotechnology companies, and academic research.

Program Outcomes

- Upon completion of the AA in Computational Biology, students are able to demonstrate an understanding of the fundamental concepts in molecular biology, including DNA, genes, proteins and genomes.

- Upon completion of the AA in Computational Biology, students are able to explain the use of computational techniques to solve biological problems.
- Upon completion of the AA in Computational Biology, students are able to use online resources such as NCBI (National Center for Biotechnology Information) and bioinformatics applications to research and analyze biological data.

Required Core: (21 Units)

BIO 1C (Cell and Molecular Biology)	5
BIO 2A (Bioinformatics)	4
CHEM 1A (General College Chemistry I).....	5
CS 7 (Introduction to Computer Programming Concepts).....	3
MATH 40 (Statistics and Probability)	4

List A: Select One (5 Units)

BIO 1A (General Botany)	5
BIO 1B (General Zoology)	5

Total Units for the Major 26

Although BIO 30 can be taken as a pre-req for BIO 2A, BIO 1C is required for the Computational Biology degree or certificate.

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Biology UC Pathway

About the Certificate

The Biology UC Pathway Certificate of Achievement is designed to prepare students for a seamless transfer into a biology major at a University of California campus. The certificate also provides entry-level opportunities for laboratory technicians in industry and the academic environment. The coursework provides foundational knowledge and hands-on experiences across all levels of biology, from the molecular to the ecological.

Program Outcomes

- Upon completion of an Certificate of Achievement in Biology UC Pathway, students are able to explain and apply basic principles and processes of biology at different levels, from the biochemical to the ecological.
- Upon completion of an Certificate of Achievement in Biology

UC Pathway, students are able to design, conduct, analyze, and/or report results of investigations and experiments in the laboratory and/or field.

- Upon completion of an Certificate of Achievement in Biology UC Pathway, students are proficient in standard biology lab techniques and lab safety procedures.

Required Core: (45 Units)

BIO 1A (General Botany)	5
BIO 1B (General Zoology)	5
BIO 1C (Cell and Molecular Biology)	5
CHEM 1A (General College Chemistry I).....	5
CHEM 1B (General College Chemistry II).....	5
CHEM 12A (Organic Chemistry I)	5
CHEM 12B (Organic Chemistry II)	5
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II)	5

Total Units 45

Certificate of Achievement Computational Biology

About the Certificate

Computational Biology uses data analysis, mathematical modeling, and computational simulation techniques to understand complex biological systems. The Computational Biology certificate provides coursework designed to train students entering careers that require the interpretation and analysis of large amounts of biological data. The objective of the certificate is to acquire skills in computer science, biology and statistics that can be applied to bioinformatics. Students may also wish to obtain the Associate of Arts in Computational Biology degree, which can be used to transfer to a university for a BA/BS degree in Computational Biology, Biotechnology, Bioinformatics, or related field.

Career Opportunities

Career opportunities for students with a Certificate of Achievement in Computational Biology may include employment with pharmaceutical companies, biotechnology companies, academic research and scientific software companies.

Program Outcomes

- Upon completion of the Certificate of Achievement in Computational Biology, students are able to demonstrate an understanding of the fundamental concepts in molecular biology, including DNA, genes, proteins and genomes.
- Upon completion of the Certificate of Achievement in Computational Biology, students are able to explain the use of computational techniques to solve biological problems.
- Upon completion of the Certificate of Achievement in Computational Biology, students are able to use online resources such as NCBI (National Center for Biotechnology Information) and bioinformatics applications to research and analyze biological data.

Required Core: (21 Units)

BIO 1C (Cell and Molecular Biology)	5
BIO 2A (Bioinformatics)	4
CHEM 1A (General College Chemistry I).....	5
CS 7 (Introduction to Computer Programming Concepts).....	3
MATH 40 (Statistics and Probability)	4

List A: Select One (5 Units)

BIO 1A (General Botany).....	5
BIO 1B (General Zoology)	5

Total Units 26

Although BIO 30 can be taken as a pre-req for BIO 2A, BIO 1C is required for the Computational Biology degree or certificate.

Biological Sciences Courses (BIO)

BIO 1A GENERAL BOTANY 5 UNITS

Diversity, structure and function of plant, fungal, and protistan phyla. Topics include development, morphology, physiology and systematics. Principles of population and community ecology and ecosystem interactions. Prerequisite: MATH 55 with a minimum grade of C or MATH 55B with a minimum grade of C or NMAT 255 with a minimum grade of C. Strongly Recommended: BIO 30 with a minimum grade of C. 54 hours lecture, 108 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B2, B3; IGETC: 5B, 5C; C-ID# BIOL 155, BIOL 135 S (if taken with BIO 1B+1C).

Degree Applicable, Credit Grading Option: GR

BIO 1B GENERAL ZOOLOGY 5 UNITS

Major groups of animal phyla and heterotrophic unicellular eukaryotes. Topics include comparative structure and function, development, ecology, taxonomy, phylogeny, evolution, and behavior. Designed for majors in biological sciences and related fields. Prerequisite: MATH 55 with a minimum grade of C or MATH 55B with a minimum grade of C. Strongly Recommended: BIO 30 with a minimum grade of C. 54 hours lecture, 108 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B2, B3; IGETC: 5B, 5C; C-ID# BIOL 150, 135 S (if taken with BIO 1A+1C).

Degree Applicable, Credit Grading Option: GR

BIO 1C CELL AND MOLECULAR BIOLOGY 5 UNITS

Principles of cell and molecular biology. Includes biochemistry, cell structure and function, cell homeostasis, cell metabolism, cell reproduction, cell communication, genetics, molecular biology, biotechnology, and evolution. Emphasis on scientific inquiry and experimental design. Prerequisite: BIO 1A with a minimum grade of C or BIO 1B with a minimum grade of C, MATH 55 with a minimum grade of C, CHEM 1A with a minimum grade of C, Eligibility for ENG 1A. 54 hours lecture, 108 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B2, B3; IGETC: 5B, 5C; C-ID# BIOL 190, BIOL 135 S (if taken with BIO 1A+1B)

Degree Applicable, Credit Grading Option: GR

BIO 2A BIOINFORMATICS 4 UNITS

Principles of Bioinformatics. Project-based course which will analyze complex biological data. The course introduces students to the tools used for computational exercises relevant to current biotechnologies and computational biology. Prerequisite: BIO 30 with a minimum grade of C (Although BIO 30 can be taken as a pre-req for BIO 2A, BIO 1C is required for the Computational Biology degree or certificate) or BIO 1C with a minimum grade of C (This course has a pre-requisite of CHEM 1A), CS 7 with a minimum grade of C, MATH 40 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

BIO 7A HUMAN ANATOMY 5 UNITS

Structural organization of the human body: gross and microscopic structure of the integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, lymphatic, respiratory, digestive, excretory, and reproductive systems, from cellular to organ system levels of organization. This course is primarily intended for nursing, allied health, kinesiology, and other health related majors. Prerequisite: BIO 30 with a minimum grade of C. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture, 108 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B2, B3; IGETC: 5B, 5C; C-ID# BIOL 110 B. *BIO 7A, 7B and 50 combined: maximum UC credit, two courses.

Degree Applicable, Credit Grading Option: GR

BIO 7B HUMAN PHYSIOLOGY 5 UNITS

Function and regulation of the human body. This course examines general, cellular, and molecular interactions that integrate the organ systems to maintain homeostasis. Human responses and computer simulations are used to collect and analyze data. Designed for nursing, physical and occupational therapy, and other health sciences majors. Prerequisite: CHEM 30A with a minimum grade of C or CHEM 31 with a minimum grade of C or CHEM 1A with a minimum grade of C, BIO 7A with a minimum grade of C. Strongly Recommended: CHEM 30B with a minimum grade of C, Eligibility for ENG 1A. 54 hours lecture, 108 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B2, B3; IGETC: 5B, 5C; C-ID# BIOL 120 B. *BIO 7A, 7B and 50 combined: maximum UC credit, two courses.

Degree Applicable, Credit Grading Option: GR

BIO 7C MICROBIOLOGY 5 UNITS

This course focuses on viruses, bacteria, fungi, protozoans, and helminths, with an emphasis on their relationship to humans. Cultivation, control, metabolism, body's defense against disease, microbial genetics, laboratory tests, and contemporary diseases are discussed. Methods used in the laboratory include standard bacteriological techniques (culturing, staining, biochemical testing, sensitivity testing etc.) as well as some molecular and immunological techniques, such as PCR and ELISA. Laboratory work also includes identification of unknowns, and/or independent research projects. Prerequisite: BIO 30 with a minimum grade of C, CHEM 30A with a minimum grade of C or CHEM 1A with a minimum grade of C. Strongly Recommended: BIO 7A with a minimum grade of C, ENG 1A with a minimum grade of C. 54 hours lecture, 108 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B2, B3; IGETC: 5B, 5C.

Degree Applicable, Credit Grading Option: GR

BIO 10 INTRODUCTION TO THE SCIENCE OF BIOLOGY 4 UNITS

This course focuses on basic principles of biology, including scientific investigation and the study of the nature of living things. Focus is on student understanding of evolution and the unity and diversity of life from the molecular level to ecosystems and biosphere. Designed for non-majors in biology and biomedical sciences. 54 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B2, B3; IGETC: 5B, 5C. *BIO 10 and 30 combined: maximum UC credit, one course. No UC credit for BIO 10 or 30 if taken after 1C.

Degree Applicable, Credit Grading Option: OP

BIO 20 CONTEMPORARY HUMAN BIOLOGY 3 UNITS

A study of the Human organism, beginning at the cellular level, emphasizing organ systems, and also including topics of genetics and biotechnology. 54 hours lecture. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B2; IGETC: 5B.

Degree Applicable, Credit Grading Option: GR

BIO 29B INDEPENDENT STUDY, BIOLOGY 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

BIO 29T INDEPENDENT STUDY, BOTANY 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

BIO 29Z INDEPENDENT STUDY, ZOOLOGY 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

BIO 30 INTRODUCTION TO COLLEGE BIOLOGY 4 UNITS

Basic principles of biology. Cell structure and function, cell division, cell metabolism, reproduction, genetics, taxonomy, origin of life, and evolution. Laboratory emphasis on developing various laboratory skills, using the metric system, collecting data, graphing, interpreting data, and preparing for and taking laboratory exams. Designed to prepare the necessary concepts and laboratory skills and experience that are needed to succeed in more advanced courses in biology. Strongly Recommended: MATH 110 with a minimum grade of C or MATH 110B with a minimum grade of C, Eligibility for ENG 1A. 54 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B2, B3; IGETC: 5B, 5C. *BIO 10 and 30 combined: maximum UC credit, one course. No UC credit for BIO 10 or 30 if taken after 1C.

Degree Applicable, Credit Grading Option: GR

BIO 40 HUMANS AND THE ENVIRONMENT 3 UNITS

Introduction to environmental issues from a scientific perspective, focusing on physical, chemical, and biological processes within the Earth system, the interaction between humans and these processes, and the role of science in finding sustainable solutions. Topics include ecological principles, biodiversity, climate change, sustainability, renewable and non-renewable energy, water resources, air and water pollution, and solid waste management. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B2; IGETC: 5B.

Degree Applicable, Credit Grading Option: OP

BIO 50 ANATOMY AND PHYSIOLOGY 4 UNITS

Structure and function of the human body is studied. Emphasis on human anatomy and physiological principles at the cellular and systemic level. Designed primarily for majors in paramedic and medical assisting programs and pre-medical students who wish to explore the realm of anatomy and physiology. 54 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B2, B3; IGETC: 5B, 5C. *BIO 7A, 7B and 50 combined: maximum UC credit, two courses.

Degree Applicable, Credit Grading Option: GR

BIO 55 ORIENTATION TO HEALTH CARE 2 UNITS

Examine physiological, psychological, ethical, social, and public health issues. Introduce the workings of the human body and mind and explore the relationship between health and larger cultural and societal issues. Introduce medical terminology. Review diseases, including causes, symptoms, how they affect the body systems, and treatment options available. Investigate, analyze, and evaluate professional opportunities, educational requirements and personal characteristics with the intent to acquire insight into careers in the allied health field, with specific focus on transfer science, clinical programs (pre-nursing, EMT, surgical technology, medical assisting), and health administrative support. Gain the academic framework and perspective necessary to pursue a career in health sciences, as well as benefit anyone confronting health care issues in today's complex world. 36 hours lecture. AA GE: VB. Transfer: CSU; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

BIO 60 MARINE BIOLOGY 4 UNITS

Ocean as a habitat, the organisms that inhabit marine waters, their ecology, adaptations and evolution, and the role of the ocean in the ecology of the biosphere. 54 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B2, B3; IGETC: 5B, 5C.

Degree Applicable, Credit Grading Option: OP

BIO 70 FIELD BIOLOGY 3 UNITS

A hands-on course in field biology. Students will learn basic concepts about ecology and environmental science through outdoor activities and exploration of a variety of ecosystems. The goals are to gain experience and develop skills in the following areas: identification of plants and animals, first-hand knowledge of a wide array of organism life histories, quantitative field research techniques and procedures applicable to plants and animals, and methods of recording data and observations. Field trips to local and regional habitats focus on seasonally relevant events, processes, and appropriate methodologies to study these communities. 36 hours lecture, 54 hours laboratory.

AA/AS GE: II. Transfer: CSU; CSU GE: B2, B3.

Degree Applicable, Credit Grading Option: GR

BUSINESS

The Las Positas College Business Studies Program is designed to provide students with a broad understanding of business concepts and functions used in a wide range of careers. There are many areas of specialization available that fit current and projected needs of the ever-changing business environment. It is important that students work closely with business faculty and counselors to determine which degrees or certificates best support their individual career and/or transfer goals. Students may pursue programs to prepare for work, upgrade skills, or transfer to a four-year college or university.

Programs of Study

Degrees:

- AS-T – Business Administration
- AS – Business
- AA – Business Administration
- AA – Business Entrepreneurship

Certificates of Achievement:

- Accounting Technician
- Bookkeeping
- Business Entrepreneurship
- Business Workforce Proficiency
- Retail Management (WAFC)
- Supervisory Management

Career Opportunities

Career opportunities include, but are not limited to: entry, level-one analyst and assistant positions in marketing, human resources, distribution, logistics, human resources, product research, and finance; and entry-level supervisory positions in all business and non-profit entities.

AS-T – Business Administration

About The Degree

The Associates in Science in Business Administration for Transfer is based on the state-wide Transfer Model Curriculum for Business and prepares students for seamless transfer into the CSU system to complete a baccalaureate degree in Business Administration or similar major. After completing the required courses in this program students will graduate with a broad-based understanding of the field of business, its demands, required skill-sets, needed abilities, and career opportunities.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AS-T in Business Administration, students are able to compare and contrast ethical standards and best practices of social responsibility to business situations.
- Upon completion of the AS-T in Business Administration, students are able to demonstrate knowledge of business operations, the business organization, business environments, and business procedures.
- Upon completion of the AS-T in Business Administration, students are able to explain the functions of all business operations and identify the resources needed in each area.
- Upon completion of the AS-T in Business Administration, students are able to list and explain the factors of production, the external business environments and apply their influence in specific business problems.

Required Core: (18 Units)

BUSN 1A (Financial Accounting).....	4
BUSN 1B (Managerial Accounting).....	4
BUSN 18 (Business Law).....	4
ECON 1 (Principles of Microeconomics).....	3
ECON 2 (Principles of Macroeconomics)	3

List A: Select One (4-5 Units)

MATH 34 (Calculus for Business and Social Sciences).....	5
MATH 40 (Statistics and Probability)	4

List B: Select Two (6-8 Units)

Any List A course not already used.....	4-5
BUSN 40 (Introduction to Business).....	3
CIS 50 (Introduction to Computing Information Technology)	3

Total Units for the Major28-30

Additional General Education and Elective Units 30-32

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The

number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Business

About the Degree

The Associate in Science degree in Business is a general business degree for those who want to pursue any of the numerous career possibilities in the field of business. This program intends to prepare students for new employment or promotions in the fields of management, supervision, marketing, finance, international business, or other areas of business administration. Career opportunities for Business Administration majors are diverse and many. The Associate in Science degree prepares students for careers in business disciplines such as sales, marketing, public relations, and human resources. Many graduates find employment within the following industries: aerospace, automotive, banking, commercial, consulting services, hospitality, information technology, manufacturing, retailing, telecommunications and viticulture. Other students may secure employment in federal, state, or local government agencies. Still other students work for nonprofit or private foundations and professional organizations. While some classes in the program transfer to four-year universities at least as electives, the program is not intended to prepare student for transfer. If your main goal is transfer to a four-year school, consider completing the Associate in Science in Business Administration for Transfer instead. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Career Opportunities

Career opportunities for Business Administration majors are diverse and many. The Associate in Science degree prepares students for careers in business disciplines such as sales, marketing, public relations, and human resources. Many graduates find employment within the following industries: aerospace, automotive, banking, commercial, consulting services, hospitality, information technology, manufacturing, retailing, telecommunications and viticulture. Other students may secure employment in federal, state, or local government agencies. Still other students work for nonprofit or private foundations and professional organizations.

Program Outcomes

- Upon completion of the AS in Business, students are able to compare and contrast ethical standards and best practices of social responsibility to business situations.
- Upon completion of the AS in Business, students are able to demonstrate knowledge of business operations, the business organization, business environments, and business procedures.
- Upon completion of the AS in Business, students are able to explain the functions of all business operations and identify the resources needed in each area.

Required Core: (23 Units)

BUSN 18 (Business Law).....4

BUSN 40 (Introduction to Business).....3
 BUSN 55 (Business Mathematics).....3
 CIS 50 (Introduction to Computing Information Technology)3
 CIS 55 (Integrating Office Applications).....4
 CIS 88A (Introduction to Microsoft Word) 1.5
 CIS 88B (Adv Microsoft Word)..... 1.5
 MKTG 50 (Introduction to Marketing) 3

List A: Select One Course from Each Area (16-19 Units)

Area 1

BUSN 20 (International Business)3
 BUSN 30 (Business Ethics and Society).....3

Area 2

CIS 43 (Professional Communications)3
 CNT 43 (Professional Communications).....3
 CS 43 (Professional Communications).....3

Area 3

WRKX 94 (Occupational Work Experience/Internship)1-3
 WRKX 95 (General Work Experience)1-3

Area 4

BUSN 48 (Human Relations in Organizations).....3
 BUSN 52 (Business Communications).....3

Area 5

BUSN 1A (Financial Accounting).....4
 BUSN 51 (Accounting for Small Businesses).....3

Area 6

ECON 1 (Principles of Microeconomics)..... 3
 ECON 10 (General Economics)3

List B: Select One (1-3 Units)

BUSN 33 (Personal Financial Management and Planning)3
 BUSN 56 (Introduction to Management)3
 CIS 8 (Essential Computing Skills)2
 CIS 71A (Keyboarding: The Alphabet) 1
 CIS 71B (Keyboard: Numbers and Symbols) 1
 CIS 75 (Office Technology/Communications)1
 MKTG 56 (Marketing Strategies)3
 MKTG 60 (Retail Store Management)3
 MKTG 61 (Professional Selling)3
 MKTG 64 (Introduction to Advertising)3

Program-Based GE[^]: Select One (3 Units)

CMST 10 (Interpersonal Communication).....3
 CMST 11 (Intercultural Communication).....3

Total Units for the Major40-45

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with

a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AA – Business Administration

About the Degree

This Associate of Arts in Business Administration degree program is designed for students seeking a career in the business field. The objective is to teach the fundamental principles underlying organizations, to emphasize education which will improve students' thought processes, to provide familiarity with the basic analytical tools of business and to develop in the student the ability to use the techniques involved in analyzing and evaluating business problems and finding reasonable solutions. Attention is focused on systems and quantitative analysis, accounting, business law, economics and mathematics.

Career Opportunities

Students who earn an AA degree in Business Administration are suited to work in a variety of industries and positions including, but not limited, to customer service associate, retail sales worker, assistant store manager, administrative assistant, relationship banker, store manager, sales consultant, sales support specialist, sales supervisor, and executive assistant.

Program Outcomes

- Upon completion of the AA in Business Administration, students are able to compare and contrast ethical standards and best practices of social responsibility to business situations.
- Upon completion of the AA in Business Administration, students are able to demonstrate knowledge of business operations, the business organization, business environments, and business procedures.
- Upon completion of the AA in Business Administration, students are able to explain the functions of all business operations and identify the resources needed in each area.
- Upon completion of the AA in Business Administration, students are able to list and explain the factors of production, the external business environments and apply their influence in specific business problems.

Required Core: (28 Units)

BUSN 1A (Financial Accounting).....	4
BUSN 1B (Managerial Accounting).....	4
BUSN 18 (Business Law).....	4

BUSN 40 (Introduction to Business).....	3
CIS 50 (Introduction to Computing Information Technology)	3
ECON 1 (Principles of Microeconomics).....	3
ECON 2 (Principles of Macroeconomics)	3
MATH 40 (Statistics and Probability)	4

List A: Select One or Two (1 Unit)

CIS 71A (Keyboarding (The Alphabet))	1
CIS 71B (Keyboard (Numbers and Symbols))	1
CIS 71C (Skills Improvement).....	1
LIBR 4 (College Research Techniques)	0.5
LIBR 6 (Research in Special Subjects).....	0.5
LIBR 7 (The Open Web and Search Engines)	0.5

List B: Select One (4-5 Units)

MATH 33 (Finite Mathematics)	4
MATH 34 (Calculus for Business and Social Sciences).....	5

Total Units for the Major 33-34

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AA – Business Entrepreneurship

About the Degree

The degree in Business Entrepreneurship is designed for a comprehensive background on all the aspects of creating a new business venture. Completion of this entrepreneurship degree provides students with critical knowledge and tools for planning and starting a new business. Completion demonstrates persistence, achievement, and may enhance job seeking. This program provides valuable preparation in proven business practices and with business ownership issues such as market focus, measurements of success, and developing a clear and useful business plan. Because some of the leading causes of failure in new businesses are poor risk management, lack of adequate capitalization, and mismanagement of resources, specific information is provided in these areas to help students make good business decisions that lead to success.

Career Opportunities

Students can use his or her associates' degree in entrepreneurship as a stepping stone to further education or, if students feel adequately prepared, can jump straight into a business venture. Students may start his or her own business, collaborate with others on a business venture or act as a consultant. In addition to a traditional career, this

will prepare students for the gig economy.

Program Outcomes

- Upon completion of the AA in Business Entrepreneurship, students are able to construct a business plan, essential marketing plan, and the basic financial documents needed for a small business.
- Upon completion of the AA in Business Entrepreneurship, students are able to define "Competitive Advantage" and discuss actions a small business should use to achieve it.
- Upon completion of the AA in Business Entrepreneurship, students are able to demonstrate knowledge of business operations, the business organization, business environments, and business procedures.
- Upon completion of the AA in Business Entrepreneurship, students are able to describe the nature and characteristics of successful small businesses.

Required Core: (19 Units)

BUSN 18 (Business Law).....	4
BUSN 40 (Introduction to Business).....	3
BUSN 45 (Entrepreneurship)	3
BUSN 48 (Human Relations in Organizations).....	3
BUSN 56 (Introduction to Management)	3
MKTG 50 (Introduction to Marketing)	3

List A: Select One Course from Each Area (12-13 Units)

Area 1

BUSN 52 (Business Communications).....	3
CMST 1 (Fundamentals of Public Speaking)	3

Area 2

BUSN 1A (Financial Accounting).....	4
BUSN 51 (Accounting for Small Businesses).....	3

Area 3

BUSN 58 (Small Business Management)	3
MKTG 56 (Marketing Strategies)	3
MKTG 61 (Professional Selling)	3

Area 4

ECON 1 (Principles of Microeconomics).....	3
ECON 10 (General Economics)	3

Total Units for the Major 31-32

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be

double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Recommended Electives:

- BUSN 20 (International Business)
- BUSN 30 (Business Ethics and Society)
- BUSN 33 (Personal Financial Management and Planning)
- BUSN 55 (Business Math)
- CIS 50 (Introduction to Computing Information Technology)
- GDDM 50 (Graphic Design/ Digital Media Fundamentals)
- THEA 3 (Theater Improvisation)
- WRKX 94 (Occupational Work Experience/Internship)
- WRKX 95 (General Work Experience)

Certificate of Achievement Accounting Technician

About the Certificate

The primary objective of the Certificate of Achievement Accounting Technician Certificate of Achievement is to prepare students for entry-level employment in the field of accounting or bookkeeping. Such careers are widely available throughout California and the rest of the country. Courses required for this certificate will allow students to become proficient in modern computerized accounting applications and other prominent software used in the business community, including QuickBooks. The certificate can also be an option for students who have graduated with a bachelor's in any discipline and want to sit for the state's CPA exam.

Career Opportunities

Accounting is a field ripe with job opportunities within various industries in corporate, government and nonprofit sectors. This certificate prepares students for entry-level employment as an accounts clerk, bookkeeper, accounting technician, payroll administrator, payroll clerk or tax preparer.

Program Outcomes

- Upon completion of the Certificate of Achievement in Accounting Technician, students are able to perform variety of functions in an accounting department including: maintain and update financial records, prepare and analyze financial statements, review bookkeepers' and clerks' work for accuracy and completeness, prepare individual income tax returns containing schedule A, B, C, D and E, maintain cost records and prepare and analyze budgets.

Required Core: (27 Units)

BUSN 1A (Financial Accounting).....	4
BUSN 1B (Managerial Accounting).....	4
BUSN 40 (Introduction to Business).....	3
BUSN 53 (Business Correspondence).....	3
BUSN 55 (Business Mathematics).....	3
BUSN 61 (Quickbooks Accounting)	2
BUSN 65 (Federal Income Tax Accounting).....	3
CIS 54 (Excel: Intro to Spreadsheets)	4

CIS 73A (Ten-Key Skill Development) 1
Total Units **27**

**Certificate of Achievement
Bookkeeping**

About the Certificate

Bookkeeping clerks along with accounting and auditing clerks are an organization's financial record keepers. They update and maintain one or more accounting records. All of these clerks make numerous computations each day. In small businesses, bookkeeping clerks handle all financial transactions and recordkeeping. In large offices and accounting departments, the clerks have more specialized tasks, such as accounts payable or account receivable. The responsibilities vary by level of experience. While you can work as a bookkeeper without certification, if you want to advance in your career, you should become a Certified Bookkeeper. Certified Bookkeepers are also able to sustain independent firms that provide bookkeeping services to small businesses.

Career Opportunities

Some people who complete bookkeeping certificates may continue on with their education and obtain a more advanced degree, but others may choose to gain work experience in entry-level accounting positions. A bookkeeping certificate can prepare individuals for jobs such as: Bookkeeper, Accounting Assistant, Auditing Clerk, Financial Reporting Clerk, Accounting Technician, Accounts Payable, and Accounts Receivable Administrator.

Program Outcomes

- Upon completion of the Certificate of Achievement in Bookkeeping, students are able to perform a variety of functions in an accounting department, including; using accounting software to analyze and record financial transactions, analyze payroll transactions, prepare trial balance, file payroll tax returns, prepare and analyze invoices, calculate interest rates, shipping terms and prepare financial statement.

Required Core: (15-16 Units)

BUSN 51 (Accounting for Small Businesses) or
 BUSN 1A (Financial Accounting)..... 3-4
 BUSN 55 (Business Mathematics)..... 3
 BUSN 61 (Quickbooks Accounting) 2
 CIS 54 (Excel: Intro to Spreadsheets) 4
 BUSN 30 (Business Ethics and Society) or
 BUSN 52 (Business Communications)..... 3

Total Units **15-16**

**Certificate of Achievement
Business Entrepreneurship**

About the Certificate

The Certificate in Entrepreneurship is designed for students who

are self-employed, current or prospective business owners, or those interested in new business ventures or startups. This certificate provides the foundation of business competencies including management, marketing, innovation, finance, communication, and leadership skills in a changing world. After a student completes the certificate, they may choose to continue their education and obtain a degree, apply their knowledge to their current job, or start their own business venture immediately.

Career Opportunities

It is estimated by the Department of Labor and the Small Business Administration that 80% of new jobs are initially created by small businesses. Entrepreneurs that start new businesses, add to the existing job market and take on the risk and rewards of being an owner. Putting an idea to work in a competitive economy can lead to satisfying personal achievement with some new ventures generating enormous job opportunities for others and wealth for the entrepreneur, investors, and employees.

Choosing to pursue an entrepreneurship certificate and/or degree can offer a variety of career paths and can meet a variety of career goals. Entrepreneurship careers cover a wide range of industries and locales, and entrepreneurs can find opportunities in businesses of all sizes. An individual's interest and ability to focus on making a project work will determine what kind of career may develop. As an entrepreneur, a career path unique to an individual's interests, business knowledge, and ambition can be carved.

Program Outcomes

- Upon completion of the Certificate of Achievement in Business Entrepreneurship, students are able to compare and contrast the impact of the external business environments on small businesses.
- Upon completion of the Certificate of Achievement in Business Entrepreneurship, students are able to construct a business plan, essential marketing plan, and basic financial documents for a small business.
- Upon completion of the Certificate of Achievement in Business Entrepreneurship, students are able to define and provide concrete examples of the "Competitive Advantage" concept that a small business must achieve in order to succeed.
- Upon completion of the Certificate of Achievement in Business Entrepreneurship, students are able to describe the nature and characteristics of successful small business persons.
- Upon completion of the Certificate of Achievement in Business Entrepreneurship, students are able to detail key business procedures relevant to a specific problem using appropriate technology.
- Upon completion of the Certificate of Achievement in Business Entrepreneurship, students are able to summarize the responsibilities of small business owners in selecting, motivating, training, and supervising employees.

Required Core: (10 Units)

BUSN 18 (Business Law)..... 4
 BUSN 40 (Introduction to Business)..... 3
 BUSN 45 (Entrepreneurship) 3

List A: Select One (3-4 Units)

BUSN 1A (Financial Accounting).....	4
BUSN 51 (Accounting for Small Businesses).....	3
BUSN 55 (Business Mathematics).....	3

List B: Select One (3 Units)

BUSN 56 (Introduction to Management).....	3
BUSN 58 (Small Business Management).....	3
MKTG 50 (Introduction to Marketing).....	3
MKTG 61 (Professional Selling).....	3

List C: Select One (4-5 Units)

BUSN 48 (Human Relations in Organizations).....	3
BUSN 52 (Business Communications).....	3
CMST 1 (Fundamentals of Public Speaking).....	3

Total Units 19-20

Certificate of Achievement Business Workforce Proficiency

About the Certificate

The Certificate of Achievement in Business Workforce Proficiency is designed to provide the training and skills necessary to operate effectively in a business environment. The certificate aims to help individuals proficient in administrative tasks across common software programs used in a business environment. The certificate also provides individuals with an overview of how business environments operate, which will strengthen his or her value within the business organization.

Career Opportunities

Students who achieve this certificate will be able to obtain positions as administrative assistant, senior administrative assistant, office manager, assistant office manager, and other positions that require a general understanding of business and administrative and organizational skills. This certificate also serves well for individuals looking for advancement in his or her current career.

Program Outcomes

- Upon completion of the Certificate of Achievement in Business Workforce Proficiency, students are able to apply standard business English to oral and written communications, including grammar, punctuation, mechanics, vocabulary, style, media, and usage.
- Upon completion of the Certificate of Achievement in Business Workforce Proficiency, students are able to describe the work ethic needed for success in today's work environment.
- Upon completion of the Certificate of Achievement in Business Workforce Proficiency, students are able to develop business communications that present information in an organized and concise manner.
- Upon completion of the Certificate of Achievement in Business Workforce Proficiency, students are able to explain group dynamics as they apply to an individual working effectively

within a group and within teams.

- Upon completion of the Certificate of Achievement in Business Workforce Proficiency, students are able to identify the primary business operations, business organizational options, and business procedures.

Required Core: (11 Units)

BUSN 40 (Introduction to Business).....	3
BUSN 48 (Human Relations in Organizations).....	3
CIS 74 (Office Procedures).....	3
PCN 15 (College Study Skills).....	2

List A: Select One (1 Unit)

CIS 72A (Data Management).....	1
CIS 72B (Basic Office Integration).....	1
CIS 73A (Ten-Key Skill Development).....	1
CIS 75 (Office Technology/Communications).....	1
CIS 84 (Windows).....	1
CIS 89A (Desktop Presentation).....	1

List B: Select One (3 Units)

CIS 43 (Professional Communications).....	3
CNT 43 (Professional Communications).....	3
CS 43 (Professional Communications).....	3

Total Units 15

Students must demonstrate keyboarding speed of 40 net words per minutes. Competency can be met by completing Computer Information Systems 71C with a "C" or better or by presenting a Las Positas College Verification of Proficiency certifying 40 net words per minutes in a five (5) minute timing.

Certificate of Achievement Retail Management (WAFC)

About the Certificate

The Retail Management Certificate offers the education needed to get started and advance a career in the retail industry. Individuals who complete this program gain the knowledge, skills, abilities, and confidence that empower them to become successful leaders in retail and service oriented companies. This certificate is endorsed by the California Grocers Association and the Western Association of Food Chains. The certificate has also been recognized as part of the White House's Upskill Initiative and by leading organizations, including the ACT Foundation and the U.S. Department of Labor.

Career Opportunities

Retail is a growing, fast-paced, and diverse industry with many opportunities for advancement. Careers are available in all areas of Business, employing over 42 million people and responsible for one in four jobs in the United States.

Program Outcomes

- Upon completion of the Certificate of Achievement in Retail Management (WAFC), students are able to demonstrate the integration of basic management theories into supervisory and

management functions.

- Upon completion of the Certificate of Achievement in Retail Management (WAFC), students are able to determine the demand for products and services offered by a firm and identify potential customers.
- Upon completion of the Certificate of Achievement in Retail Management (WAFC), students are able to differentiate threshold issues involved in legal, ethical, and social responsibilities of management.
- Upon completion of the Certificate of Achievement in Retail Management (WAFC), students are able to identify key business procedures relevant to a specific problem using appropriate technology.
- Upon completion of the Certificate of Achievement in Retail Management (WAFC), students are able to integrate basic management theories into supervisor and management functions.
- Upon completion of the Certificate of Achievement in Retail Management (WAFC), students are able to list current problems related to human behavior in organizations and detail management practices effective in managing those issues.
- Upon completion of the Certificate of Achievement in Retail Management (WAFC), students are able to list resources and strategies for monitoring trends which help identify the need for new products and services.
- Upon completion of the Certificate of Achievement in Retail Management (WAFC), students are able to summarize measures that can be taken by individuals and organizations to correct organizational dysfunctions.

Required Core: (16 Units)

BUSN 48 (Human Relations in Organizations).....	3
BUSN 56 (Introduction to Management)	3
BUSN 88 (Human Resources Management).....	3
CIS 55 (Integrating Office Applications).....	4
MKTG 50 (Introduction to Marketing)	3

List A: Select One from Each Area (9-10 Units)

Area 1

BUSN 1A (Financial Accounting).....	4
BUSN 51 (Accounting for Small Businesses).....	3

Area 2

BUSN 52 (Business Communications).....	3
BUSN 53 (Business Correspondence).....	3
CIS 43 (Professional Communications)	3
CNT 43 (Professional Communications).....	3
CS 43 (Professional Communications).....	3
CMST 10 (Interpersonal Communication).....	3

Area 3

MKTG 56 (Marketing Strategies)	3
MKTG 60 (Retail Store Management)	3

Total Units 25-26

Certificate of Achievement Supervisory Management

About the Certificate

The Certificate of Achievement in Supervisory Management is designed to provide the training and skills necessary to effectively manage diverse groups and individuals. The certificate aims to help individuals, managers, and supervisors develop skills to achieve organizational objectives through the development of human resources management skills. Developing abilities in the areas of mobilization, organization, communication, evaluation and adaptation will be a focus.

Career Opportunities

An expanding global marketplace means that individuals have growing career options in which to utilize the knowledge and skills learned when studying supervision to work in any field, for a profit or not for profit entity, in any size or type of organization including large multinational companies either within the United States or internationally.

Program Outcomes

- Upon completion of the Certificate of Achievement in Supervisory Management, students are able to analyze basic business documents to detect problems within an area of supervision.
- Upon completion of the Certificate of Achievement in Supervisory Management, students are able to demonstrate effective strategies for team work, planning, organizing, leading, and controlling human resources.
- Upon completion of the Certificate of Achievement in Supervisory Management, students are able to identify appropriate information compilation, reporting, storage and retrieval systems for common business situations.
- Upon completion of the Certificate of Achievement in Supervisory Management, students are able to list the primary responsibilities of a supervisor in business today.

Required Core: (18 Units)

BUSN 30 (Business Ethics and Society).....	3
BUSN 48 (Human Relations in Organizations).....	3
BUSN 52 (Business Communications).....	3
BUSN 56 (Introduction to Management)	3
BUSN 87 (Organizational Management and Leadership).....	3
BUSN 88 (Human Resources Management).....	3

List A: Select One (3-4 Units)

BUSN 1A (Financial Accounting).....	4
BUSN 18 (Business Law).....	4
BUSN 40 (Introduction to Business).....	3
BUSN 51 (Accounting for Small Businesses).....	3
BUSN 53 (Business Correspondence).....	3
BUSN 58 (Small Business Management)	3
BUSN 86 (Management Strategies & Dilemmas)	3

CIS 55 (Integrating Office Applications)4
MKTG 50 (Introduction to Marketing)3

List B: Select One (3-6 Units)

WRKX 94 (Occupational Work Experience/Internship)3 - 6
WRKX 95 (General Work Experience)3 - 6

Total Units24-28

Business Courses (BUSN)

BUSN 1A FINANCIAL ACCOUNTING 4 UNITS

A study of accounting as an information system; examining why it's important, and how it's used by investors and creditors to make decisions. Includes the recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles and comparing it to international financial reporting standards, preparation and analysis of the classified financial statements for merchandising and service companies. Also includes issues related to recording and valuation of assets, liabilities, equities and cashflow, recognition of revenues, expenses using effective internal controls and ethical standards. 72 hours lecture, 18 hours laboratory. Transfer: CSU, UC; C-ID# ACCT 110.

Degree Applicable, Credit Grading Option: GR

BUSN 1B MANAGERIAL ACCOUNTING 4 UNITS

A study of the use of accounting data for managerial purposes including; planning, directing, and controlling activities. Includes broad coverage of concepts, structures, classifications, and behaviors of costs. Topics include; job costing, process costing, activity based costing, relationship between cost, volume and profitability, relevant range, standard costing, profit planning and budgeting, static and flexible budgeting, responsibility accounting and segment reporting, absorption and variable costing and capital expenditure decisions. Prerequisite: BUSN 1A with a minimum grade of C. 72 hours lecture, 18 hours laboratory. Transfer: CSU, UC; C-ID# ACCT 120.

Degree Applicable, Credit Grading Option: GR

BUSN 18 BUSINESS LAW 4 UNITS

A study of the legal environment of business. Covering laws and regulations impacting business transactions. Introduction to the legal process. Topics include sources of legal concepts and ethics, torts, contracts, UCC, warranties, product liability, consumer financial transactions, environmental, competition, agency, employment and labor, business organizations, and judicial and administrative processes. Strongly Recommended: BUSN 40 with a minimum grade of C, ENG 1A with a minimum grade of C. 72 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; C-ID# BUS 125.

Degree Applicable, Credit Grading Option: GR

BUSN 20 INTERNATIONAL BUSINESS 3 UNITS

Exploration of major factors involved in international entrepreneurship. Includes an overview of economic, historical, technological, legal, environmental, and educational implications on entrepreneurship. Analyzes cultural differences, issues and trends, which influence entrepreneurship and business decision-making.

Discuss options for emerging markets; international marketing; manufacturing, physical distribution, and foreign investment options are explored along with State and federal resources available to facilitate importing and exporting. Strongly Recommended: BUSN 40 with a minimum grade of C, ENG 1A with a minimum grade of C or ENG 1AEX with a minimum grade of C. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

BUSN 30 BUSINESS ETHICS AND SOCIETY 3 UNITS

A survey of the past and current behavior of business in America society. Examines the ethical, political and social issues confronting organizations and the organizations' responsibilities and obligations in responding to them. Discusses the responsibility of business toward customers, employees, stockholders, competitors, suppliers, government, and the community at large. Strongly Recommended: BUSN 40 with a minimum grade of C, Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: IV. Transfer: CSU; CSU GE: D7.

Degree Applicable, Credit Grading Option: GR

BUSN 33 PERSONAL FINANCIAL MANAGEMENT AND PLANNING 3 UNITS

Designed to provide students with the practical, hands-on means of successfully managing their personal finances and of becoming financially empowered upon course completion. Among other topics, the course will cover the basics of credit management, assessing insurance needs, budgeting, personal financial statement preparation, investment and savings accounts, management of taxes, retirement accounts, will preparation and estate planning. 54 hours lecture. AA/AS GE: IB. Transfer: CSU; CSU GE: B4.

Degree Applicable, Credit Grading Option: OP

BUSN 40 INTRODUCTION TO BUSINESS 3 UNITS

A multidisciplinary examination and introduction to business operations within the U.S. and internationally. Provides an overview of global economic systems, business formations, business ethics and laws, general accounting practices and financing, facility location and layout, production, organizational structures and management functions. Fundamentals of risk management, marketing, human resources, and employee motivation are covered. Demonstrates how culture, society, and external business environments impact a business' ability to achieve its organizational goals. Strongly Recommended: ENG 1A. 54 hours lecture. Transfer: CSU, UC; C-ID# BUS 110.

Degree Applicable, Credit Grading Option: OP

BUSN 45 ENTREPRENEURSHIP 3 UNITS

This course is designed for students who are interested in starting an entrepreneurial venture or new business. This course will cover the process of successfully launching, managing and growing their idea, emphasizing opportunity recognition and feasibility analysis. A practical study of the creation and essential skills required to start and grow an entrepreneur venture. It will also cover important topics such as developing a competitive advantage, protecting intellectual property and obtaining venture capital financing. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

BUSN 48 HUMAN RELATIONS IN ORGANIZATIONS 3 UNITS

An introduction to the interpersonal skills needed in today's workplace with a focus on effective communication, decision making, cross cultural relations, diversity, resolving conflict, managing change, group dynamics, and ethical behavior. 54 hours lecture. AA/AS GE: IB. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

BUSN 51 ACCOUNTING FOR SMALL BUSINESSES 3 UNITS

Basic accounting skills for managers and entrepreneurs that provide a foundation in financial reporting and analysis, payroll taxes, and internal controls. The course includes practical application of accounting theory to the accounting cycles for service and merchandising businesses, including bookkeeping practices, common debit and credit procedures, books of original entry, working papers, adjusting and closing entries, income statement, statement of owner's equity, balance sheet, cash, payroll, and special journals. 54 hours lecture, 18 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

BUSN 52 BUSINESS COMMUNICATIONS 3 UNITS

This practical course supports career success by covering principles, strategies, and applications of effective business communications. The course emphasizes critical thinking, problem solving, and ethical practices. Focus is placed on cultural dimensions of communication, listening skills, nonverbal communication, the writing process, social media, professionalism, teamwork, meeting management, presentation skills, and employment communication, including job interviewing and résumé writing. Strongly Recommended: ENG 1A with a minimum grade of C or ENG 1AEX with a minimum grade of C. 54 hours lecture. AA/AS GE: IB. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

BUSN 53 BUSINESS CORRESPONDENCE 3 UNITS

Development of skills for composing general business correspondence to a variety of audiences including multiple levels within an organization and cross cultural communications. Crafting messages, including e-mail, administrative communications, technical reports, meeting agendas, and meeting minutes. Determining the appropriate media for the communication, correct writing style, and level of terminology within the message. Emphasis on appropriate English grammar, spelling, on-line netiquette, and cross-cultural communications. Strongly Recommended: ENG 1A with a minimum grade of C or ENG 1AEX with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

BUSN 55 BUSINESS MATHEMATICS 3 UNITS

This course focuses on learning computations for typical business transactions including; simple interest, compound interest, installment sales, trade and cash discounts, mark-on percents, pricing, discounting notes and drafts, depreciation, taxes, insurance, statistics, stocks and bonds, and distribution of ownership and profits. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

BUSN 56 INTRODUCTION TO MANAGEMENT 3 UNITS

Introduction to the application of tools, principles and concepts in business management. Emphasis will be on planning, organizing, leading, and controlling. Additional topics will include decision-making, employee motivation, team work, and current trends. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

BUSN 58 SMALL BUSINESS MANAGEMENT 3 UNITS

Fundamentals for individuals starting, operating, and growing a successful small business enterprise. Emphasis on all endeavors: self-employment; freelancing; brick and mortar, pop-up and Internet retailing; technical and professional services; and franchising. Focus on achieving optimum benefits from limited resources; financing strategies; marketing options; legal, ethical, and regulatory issues encountered by all start-ups. Strongly Recommended: BUSN 1A with a minimum grade of C or BUSN 51 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

BUSN 61 QUICKBOOKS ACCOUNTING 2 UNITS

Introduction to the use of QuickBooks accounting software to process transactions related to a service and merchandising company. Specific topics include using company files, sales and receivables, payables and purchases, bank and credit card reconciliations, end of period transactions and payroll. Transactions include journalizing, adjusting entries, closing entries, bank reconciliation and preparing financial statements. Strongly Recommended: BUSN 51 with a minimum grade of C, BUSN 1A with a minimum grade of C. 18 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

BUSN 65 FEDERAL INCOME TAX ACCOUNTING 3 UNITS

A study and analysis of the principles of federal income tax applied to employees, self-employed individuals and rental income. Includes an overview of taxes related to partnerships, informational returns and corporate tax returns. Analysis of the Internal Revenue Code with examination of court rulings and regulations. Review of new legislation that alters existing tax law. Introduction to tax preparation software is included. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

BUSN 86 MANAGEMENT STRATEGIES & DILEMMAS 3 UNITS

The course is designed to familiarize students with the accepted standards, procedures, and techniques employed by top, middle, and supervisory level managers. The course provides an understanding of the role of management and how to develop plans and execute strategies in pursuit of organizational goals. Strongly Recommended: BUSN 40 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

pharmaceuticals, materials research and production, petrochemicals, food science, environmental science, businesses requiring technical management, service and sales, technical and science writing, teaching science education; and entry into professional studies in medicine, dentistry, pharmacy, and others.

Program Outcomes

- Upon successful completion of an AS in Chemistry, students are able to quantitatively analyze nature at the atomic scale by applying fundamental chemical concepts, ranging from atomic theory to organic synthesis.
- Upon successful completion of an AS in Chemistry, students are able to design and conduct laboratory experiments, and analyze and interpret their data.
- Upon successful completion of an AS in Chemistry, students are able to effectively communicate the methods, analysis, results, and conclusions of their experiments.
- Upon successful completion of an AS in Chemistry, students are able to skillfully perform experimental measurements, techniques, and protocols, properly use standard laboratory instruments, and adhere to safe laboratory practices.

Required Core: (40 Units)

CHEM 1A (General College Chemistry I).....	5
CHEM 1B (General College Chemistry II).....	5
CHEM 12A (Organic Chemistry I).....	5
CHEM 12B (Organic Chemistry II).....	5
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II).....	5
MATH 3 (Multivariable Calculus).....	5
PHYS 1A (General Physics I).....	5

List A: Select One (5 Units)

PHYS 1B (General Physics II).....	5
PHYS 1C (General Physics III).....	5

Program-Based GE[^]: (3 Units)

CMST 1 (Fundamentals of Public Speaking).....	3
CMST 10 (Interpersonal Communication).....	3

Total Units for the Major 45

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic

goal.

Recommended Electives:

- BIO 30 (Introduction to College Biology)
- BIO 40 (Humans and the Environment)
- CS 1 (Computing Fundamentals)
- MATH 5 (Ordinary Differential Equations)
- MATH 7 (Elementary Linear Algebra)
- PHYS 1B (General Physics II)
- PHYS 1C (General Physics III)
- PHYS 1D (General Physics IV)

AS – Chemistry Education

About the Degree

The AS in Chemistry Education degree fulfills the lower-division requirements for four-year BA Chemistry programs designed for future high school and middle school science teachers. The AS Degree is designed to articulate directly with four-year-institution teacher preparation programs with a focus on chemistry education, including single subject teacher preparation in science with a concentration in chemistry. An AS in Chemistry Education would also be an appropriate transfer preparation for students considering chemistry-related interdisciplinary fields.

Career Opportunities

An AS in Chemistry Education may lead to careers in middle and high school science teaching. Chemistry majors interested in teaching at the college level and/or pursuing research careers will continue on to pursue post-graduate degrees.

Program Outcomes

- Upon successful completion of an AS in Chemistry Education, students are able to quantitatively analyze nature at the atomic scale by applying fundamental chemical concepts, ranging from atomic theory to organic synthesis.
- Upon successful completion of an AS in Chemistry Education, students are able to design and conduct laboratory experiments, and analyze and interpret their data.
- Upon successful completion of an AS in Chemistry Education, students are able to effectively communicate the methods, analysis, results, and conclusions of their experiments.
- Upon successful completion of an AS in Chemistry Education, students are able to skillfully perform experimental measurements, techniques, and protocols, properly use standard laboratory instruments, and adhere to safe laboratory practices.

Required Core: (42-43 Units)

BIO 1A (General Botany) or BIO 1B (General Zoology) or BIO 30 (Introduction to College Biology).....	4 -5
CHEM 1A (General College Chemistry I).....	5
CHEM 1B (General College Chemistry II).....	5
CHEM 12A (Organic Chemistry I).....	5
CHEM 12B (Organic Chemistry II).....	5
MATH 1 (Calculus I).....	5

MATH 2 (Calculus II)	5
PHYS 2A (Introduction to Physics I)	4
PHYS 2B (Introduction to Physics II)	4

Program-Based GE[△]: (3 Units)

CMST 1 (Fundamentals of Public Speaking)	3
CMST 10 (Interpersonal Communication)	3

Total Units for the Major42-43

[△] Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Recommended Electives are suggested for students interested in taking courses beyond unit requirement for degree:

- EVST 5 (Energy and Sustainability)
- GEOL 1 (Physical Geology)
- BIO 40 (Humans and the Environment)

Chemistry Courses (CHEM)

CHEM 1A GENERAL COLLEGE CHEMISTRY I 5 UNITS

Introduction to atomic structure, bonding, stoichiometry, thermochemistry, gases, matter and energy, oxidation-reduction, chemical equations, liquids and solids, solutions, chemical energetics and equilibrium concepts. Laboratory includes both quantitative and qualitative experiments. Prerequisite: MATH 55 with a minimum grade of C or NMAT 255 with a minimum grade of C and CHEM 31 with a minimum grade of C, the Chemistry 31 prerequisite can be fulfilled by demonstrating the appropriate skill level in the Chemistry Placement Process. 54 hours lecture, 108 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# CHEM 110, CHEM 120 S (if taken with CHEM 1B). * *CHEM 1A and 30A combined: maximum UC credit; one course.*

Degree Applicable, Credit Grading Option: GR

CHEM 1B GENERAL COLLEGE CHEMISTRY II 5 UNITS

Continuation of Chemistry 1A. Includes chemical energetics and equilibria, solutions and ionic equilibria, acid-base chemistry, electrochemistry, coordination chemistry, kinetics, nuclear chemistry, organic chemistry, and the chemistry of family groups of the periodic

table. Laboratory emphasizes quantitative techniques, including instrumentation, and qualitative analysis. Prerequisite: CHEM 1A with a minimum grade of C. 54 hours lecture, 108 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# CHEM 120 S (if taken with CHEM1A). * *CHEM 1B and 30B combined: maximum UC credit, one course.*

Degree Applicable, Credit Grading Option: GR

CHEM 12A ORGANIC CHEMISTRY I 5 UNITS

Hydrocarbons, alkyl halides, alcohols, ethers, and an introduction to aromatic hydrocarbons. Structure, bonding, stereochemistry, conformational analysis, nomenclature, and physical properties in relation to these particular groups of compounds. Emphasis on reactivity and reaction mechanisms. Laboratory work includes microscale, macroscale, spectroscopic, and chromatographic techniques. Chemistry 12A is the first semester in a year-long course in organic chemistry designed for students majoring in chemistry and related disciplines. Prerequisite: CHEM 1B with a minimum grade of C. 54 hours lecture, 108 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# CHEM 150, CHEM 160 S (if taken with CHEM 12B).

Degree Applicable, Credit Grading Option: GR

CHEM 12B ORGANIC CHEMISTRY II 5 UNITS

Continuation of Chemistry 12A with an introduction to the chemistry of aromatics, amines, enols and enolate ions, carboxylic acids, aldehydes, ketones and biochemical topics focusing on structure, synthesis and mechanisms of reaction. Laboratory work in basic techniques, synthetic methods, qualitative, spectroscopic, and chromatographic analysis techniques designed for students whose interests require a full year in-depth study of organic chemistry. Prerequisite: CHEM 12A with a minimum grade of C. 54 hours lecture, 108 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# CHEM 160 S (if taken with CHEM 12A).

Degree Applicable, Credit Grading Option: GR

CHEM 29 INDEPENDENT STUDY, CHEMISTRY 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

Grading Option: GR

CHEM 30A INTRODUCTORY AND APPLIED CHEMISTRY I 4 UNITS

Chemistry of inorganic compounds, atomic theory, bonding, equations, gas laws, solutions, acid-base theory and oxidation-reduction. Designed to meet the requirements of certain programs in allied health and technological fields and for general education. Prerequisite: MATH 110 with a minimum grade of C or NMAT 210 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A, 5C. * *CHEM 1A and 30A combined: maximum UC credit; one course.*

Degree Applicable, Credit Grading Option: GR

CHEM 30B INTRODUCTORY AND APPLIED CHEMISTRY II 4 UNITS

Continuation of Chemistry 30A with emphasis on organic and biochemical concepts related to human physiological systems. Prerequisite: CHEM 30A with a minimum grade of C. 54 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# CHEM 102. *CHEM 1B and 30B combined: maximum UC credit; one course.

Degree Applicable, Credit Grading Option: GR

CHEM 31 INTRODUCTION TO COLLEGE CHEMISTRY 4 UNITS

Elementary concepts of chemistry with emphasis on mathematical calculations; includes nomenclature, stoichiometry, atomic structure, gas laws, and acids and bases. Designed for majors in science and engineering. Prerequisite: MATH 55 with a minimum grade of C or NMAT 255 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# CHEM 101. *No UC credit if taken after CHEM 1A or 30A.

Degree Applicable, Credit Grading Option: OP

COMMUNICATION STUDIES

The Communication Studies program is designed to provide students with fundamental understanding of the principles of speech communication as well as experience in the application of these principles. Participation in these classes develops critical thinking, personal growth, research proficiency, presentation skills, and an understanding of diversity. Classes prepare students for transfer to four-year institutions and entry into careers in which effective communication skills are important, such as teaching, public relations, and law.

The Speech and Debate Team, otherwise known as “Forensics” or “The Talk Hawks” provides students with an intensive focus on enhancing research, writing, and performance skills. Forensics students compete on an intercollegiate basis at tournaments in the areas of Public Speaking, Oral Interpretation, and Debate. Besides traveling to competitions, students in the nationally and internationally renowned program also host a tournament and two Speech Performance nights per year. With this opportunity, students experience accelerated growth in their communication skills and self-esteem. More information can be found at: <http://laspositascollege.edu/CMST/forensics.php>

Programs of Study

Degrees:

- AA-T – Communication Studies

AA-T – Communication Studies

About the Degree

The Las Positas College Communication Studies program offers courses that lead to an Associate in Communication Studies for Transfer degree. The major requirements for this degree align with the Intersegmental Transfer Model Curriculum (TMC) for Communication Studies. Students will have guaranteed admission to a California State University (CSU) campus upon successful completion of the program requirements. Students should talk with a counselor to determine whether or not this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution. The course work required for the AA-T in Communication Studies provides students with fundamental understanding of the principles of speech communication as well as experience in the application of these principles. Participation in Communication Studies classes develops critical thinking, personal growth, research abilities, presentation skills, and an understanding of the theories, perspectives, principles, and concepts behind human communication.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C" (or "P") or better in all courses required for the major or area of emphasis.

Career Opportunities

The Associate in Communication Studies for Transfer is intended to provide an option for students who plan on completing a bachelor's degree in a similar major at a CSU campus. Communication Studies classes enrich students and prepare them for careers where strong communication skills are essential, such as teaching, law, public relations, sales, speech writing, and performance. A degree in Communication Studies can lay an amazingly effective foundation for a wide variety of innovative and communication-oriented careers.

Program Outcomes

- Upon completion of the AA-T in Communication Studies, students are able to describe the Communication discipline and its central questions.
- Upon completion of the AA-T in Communication Studies, students are able to employ communication theories, perspectives, principles, and concepts.
- Upon completion of the AA-T in Communication Studies, the students are able to engage in communication inquiry.
- Upon completion of the AA-T in Communication Studies, students are able to create and deliver messages appropriate to the audience, purpose, and context.

- Upon completion of the AA-T in Communication Studies, students are able to critically analyze messages.
- Upon completion of the AA-T in Communication Studies, students are able to apply ethical communication principles and practices.
- Upon completion of the AA-T in Communication Studies, students are able to utilize communication to embrace difference.

Required Core: (3 Units)

CMST 1 (Fundamentals of Public Speaking)3

List A: Select Two (6 Units)

CMST 3 (Group Communication)3
 CMST 10 (Interpersonal Communication).....3
 CMST 46 (Argumentation and Debate)3

List B: Select Two (6 Units)

Any List A course not already used.....3
 CMST 2 (Oral Interpretation of Literature).....3
 CMST 11 (Intercultural Communication).....3
 CMST 48 (Activities in Forensics)3
 JAMS 1 (Introduction to Mass Communications)3

List C: Select One (3 Units)

Any List A or B course not already used3
 ANTR 3 (Cultural Anthropology)3
 CMST 4 (Introduction to Communication Studies).....3
 CMST 5 (Readers Theater).....3
 ENG 4 (Critical Thinking and Writing about Literature)3
 ENG 7 (Critical Thinking and Writing Across Disciplines)3
 JAMS 11 (Introduction to Reporting and Newswriting).....3
 PSYC 1 (General Psychology).....3
 SOC 1 (Principles of Sociology)3

Total Units for the Major 18

Additional General Education And Elective Units 42

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Communication Studies Courses (CMST)

CMST 1 FUNDAMENTALS OF PUBLIC SPEAKING 3 UNITS

Theory and techniques of public speaking. Discovery, development, and criticism of ideas in public discourse through research, reasoning,

organization, composition, presentation, and evaluation of various types of speeches including informative and persuasive speeches; includes developing the faculties of critical listening and problem solving. Strongly Recommended: ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: IB. Transfer: CSU, UC; CSU GE: A1; IGETC: 1C.

Degree Applicable, Credit Grading Option: OP

CMST 2 ORAL INTERPRETATION OF LITERATURE 3 UNITS

Critical analysis, appreciation, and application of theories and techniques used to perform various forms of literature, including poetry, prose, and drama. Students will learn to evaluate, analyze, edit, and creatively perform selections of literature for an audience. 54 hours lecture. AA/AS GE: IB, III. Transfer: CSU, UC; CSU GE: C2; C-ID# COMM 170.

Degree Applicable, Credit Grading Option: OP

CMST 3 GROUP COMMUNICATION 3 UNITS

Principles of communication in a variety of group contexts. Theory, application, and evaluation of group communication processes, including norms, roles, problem solving, conflict management, decision making, and leadership. Includes participation in simulation exercises and group activities. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

CMST 4 INTRODUCTION TO COMMUNICATION STUDIES 3 UNITS

Introduction to the breadth of the communication discipline with a focus on the foundations of interpersonal communication, small group communication, and public speaking. Examination and practice of basic human communication principles and theories to develop critical thinking and communication competencies in a variety of contexts. Strongly Recommended: ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: IB, IV. Transfer: CSU, UC; CSU GE: D7; IGETC: 4; C-ID# COMM 115.

Degree Applicable, Credit Grading Option: OP

CMST 5 READERS THEATER 3 UNITS

Introduction to the various principles and techniques used in readers theater, a style of theater that combines oral interpretation and conventional theater to make literature come alive for the audience. Using prose, poetry, and drama literature, students will create, compile, analyze, stage, and perform one or more readers theater productions. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2.

Degree Applicable, Credit Grading Option: OP

CMST 10 INTERPERSONAL COMMUNICATION 3 UNITS

Exploration, discussion, and evaluation of the principles of the verbal and non-verbal communication process in relationships. Study of theory and research findings and their application to communication in interpersonal relationships in personal and professional contexts. Strongly Recommended: ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: IB, IV. Transfer: CSU, UC; CSU GE: A1,

students with professional office skills and technologies to meet the requirements of a constantly changing office environment. Emphasis is placed on computer applications skills, professional communications, accounting skills, as well as an understanding for the human relations and ethics that are important to success in a today's workplaces. This program offers students the opportunity for direct job entry or for upgrading skills for advancement. Additionally, the degree includes General Education, which will help students develop a sense of social responsibility and strong analytical, communication, intellectual, practical skills that the student can apply in real-world setting.

Career Opportunities

Career opportunities include, but are not limited to: administrative assistant, administrative technician, administrative associate, office manager, office clerk, receptionist, office professional, customer service representative, and office coordinator.

Program Outcomes

- Upon completion of the AA in Administrative Assistant, students are able to complete business-related documents using the various functions basic, intermediate, and advanced—of the software programs: Word, Excel, PowerPoint.

Required Core: (30-33 Units)

BUSN 30 (Business Ethics and Society)	3
BUSN 40 (Introduction to Business)	3
BUSN 48 (Human Relations in Organizations)	3
BUSN 51 (Accounting for Small Businesses) or BUSN 1A (Financial Accounting)	3-4
CIS 50 (Introduction to Computing Information Technology)	3
CIS 54 (Excel: Intro to Spreadsheets)	4
CIS 55 (Integrating Office Applications)	4
CIS 74 (Office Procedures)	3
CIS 88A (Introduction to Microsoft Word)	1.5
CIS 88B (Adv Microsoft Word)	1.5
WRKX 94 (Occupational Work Experience/Internship) or WRKX 95 (General Work Experience)	1-3

List A: Select One (3 Units)

CIS 43 (Professional Communications)	3
CNT 43 (Professional Communications)	3
CS 43 (Professional Communications)	3

List B: Select from Below (6-7 Units)

BUSN 56 (Introduction to Management)	3
CIS 55B (Advanced MS Office Skills)	2
CIS 57 (Database Concepts)	3
CIS 59 (Web Dev: HTML/CSS/Javascript)	3
CIS 62 (Project Management)	3
CIS 72A (Data Management)	1
CIS 72B (Basic Office Integration)	1
CIS 73A (Ten-Key Skill Development)	1
CIS 75 (Office Technology/Communications)	1
CIS 89A (Desktop Presentation)	1
MKTG 50 (Introduction to Marketing)	3

Total Units for the Major **39-43**

Keyboarding Competency

Students must demonstrate keyboarding speed for 60 net words per minute. Competency can be met by completing CIS 71C with a "C" or higher or by presenting a Las Positas College Verification of Proficiency certifying 60 net words per minute in a five (5) minute timing.

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AA – Computer Information Systems

About the Degree

The Associate of Arts in Computer Information Systems is designed to prepare students in a wide range of information systems skills applicable to the "real business world," such as web development, systems analysis and design, programming, data communication and networking, communication technologies, and internet protocols. These skills will prepare a student to enter into or advance within career patterns of the computer information systems industry. The degree is designed to prepare students for the employment market at the entry level in computer and information technology, provide a foundation for those students who plan to complete a four-year program in computer information systems or related fields of study, and upgrade current skills to facilitate assumption of assume greater responsibility in a current employment position.

Career Opportunities

Career Opportunities include, but are not limited to, administrative assistant, office administration, general business, web designer/webmaster, software installation and maintenance, software quality control, database management, help desk specialist, network administration and technical customer support.

Program Outcomes

- Upon completion of the AA in Computer Information Systems, students are able to analyze a business problem and develop a solution using appropriate applications software.

Required Core: (25 Units)

CIS 43 (Professional Communications) or CNT 43 (Professional Communications) or CS 43 (Professional Communications)	3
CIS 50 (Introduction to Computing Information Technology)	3
CIS 54 (Excel: Intro to Spreadsheets)	4
CIS 55 (Integrating Office Applications)	4
CIS 57 (Database Concepts)	3

CIS 65 (Introduction to Desktop Operating Systems).....	2
CIS 66 (Networking Fundamentals) or CNT 52 (Networking Fundamentals).....	3
CIS 88A (Introduction to Microsoft Word)	1.5
CIS 88B (Adv Microsoft Word).....	1.5

List A: Select from the Following (12-13 Units)

CIS 55B (Advanced MS Office Skills)	2
CIS 59 (Web Dev: HTML/CSS/Javascript)	3
CIS 59C (Web Programming - JavaScript).....	3
CIS 60 (Systems Analysis and Design)	3
CIS 62 (Project Management)	3
CIS 9001 (Database Design Methodology).....	3
CIS 9002 (ORACLE: Database Design and SQL Programming).....	3
CNT 51 (CompTIA's A+ Certification Computer Technician)	4
CS 7 (Introduction to Computer Programming Concepts).....	3

Total Units for the Major 37-38

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Computer Information Technologist

About the Degree

The Associate of Science in Computer Information Technologist degree was developed in conjunction with our local national labs and industry partners to provide students with a breadth of coursework and practical hands-on experience needed by entry level IT professionals. The program includes core courses that provide students with a strong foundation in: computer programming, computer networking, and database design and administration. Additional electives in each of the areas, provide students with the flexibility to focus their studies in one of these areas based on their interests and talents. Another key component of the degree will be internships and work experience opportunities to provide real-world opportunities to put the skills students have learned in the classroom to practical use.

Career Opportunities

Students completed the Associates of Sciences degrees in Computer Information Technologist will be prepared for careers in database design and administration, software development, network and systems administration, computer systems analysis, and computer help desk and system support.

Program Outcomes

- Upon completion of the AS in Computer Information Technologist, students are able to demonstrate a strong foundation of knowledge in computer programming, database design and administration, and computer networking.
- Upon completion of the AS in Computer Information Technologist, students are able to demonstrate clear, compelling, analytical, and concise writing to professionally describe their programming, database, and networking project and skills.

Required Core: (21 Units)

CIS 43 (Professional Communications) or CNT 43 (Professional Communications) or CS 43 (Professional Communications).....	3
CIS 60 (Systems Analysis and Design)	3
CIS 66 (Networking Fundamentals) or CNT 52 (Networking Fundamentals).....	3
CIS 9002 (Introduction to Database Management).....	3
CNT 69 (Network Security; CompTIA Security+ Certification).....	3
CS 7 (Introduction to Computer Programming Concepts).....	3
CS 41 (Red Hat Linux Administration I) or CNT 7401 (Red Hat Linux Administration I).....	3

List A: Select from the Following (10 Units)

Programming Electives

CS 2 (Computing Fundamentals II).....	4
CS 20 (Advanced Programming with Data Structures/C++)	4

Networking/A+ Electives

CNT 51 (CompTIA's A+ Certification Computer Technician)	4
CNT 55 (MSCM I Windows Server Installation, Storage, and Compute).....	3
CNT 56 (MSCM II Networking with Windows Server)	3

Database/Project Management Electives

CIS 62 (Project Management)	3
CIS 9001 (Database Design Methodology).....	3

List B: Select One (4 Units)

CS 1 (Computing Fundamentals I)	4
CS 31 (Java Programming).....	4

List C: Select One (3 Units)

CS 47 (Capstone Project).....	3
WRKX 94 (Occupational Work Experience/Internship)	3
WRKX 95 (General Work Experience)	3

Program-Based GE [^]: (3 Units)

CIS 50 (Introduction to Computing Information Technology)	3
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Total Units for the Major 38

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be

earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Administrative Assistant

About the Certificate

The Administrative Assistant Certificate of Achievement provides students with professional office skills and technologies to meet the requirements of a constantly changing office environment. Emphasis is placed on computer applications skills, professional communications, accounting skills, as well as an understanding for the human relations and ethics that are important to success in a today's workplaces. This program offers students the opportunity for direct job entry or for upgrading skills for advancement.

Career Opportunities

Career opportunities include, but are not limited to: administrative assistant, administrative technician, administrative associate, office manager, office clerk, receptionist, office professional, customer service representative, and office coordinator.

Program Outcomes

- Upon completion of the Certificate of Achievement in Administrative Assistant, students are able to demonstrate the ability to successfully use basic English language skills (grammar, punctuation, capitalization, etc.) in business documents.

Required Core: (22 Units)

BUSN 40 (Introduction to Business)	3
BUSN 48 (Human Relations in Organizations)	3
BUSN 51 (Accounting for Small Businesses)	3
CIS 50 (Introduction to Computing Information Technology)	3
CIS 54 (Excel: Intro to Spreadsheets)	4
CIS 74 (Office Procedures)	3
CIS 88A (Introduction to Microsoft Word)	1.5
CIS 88B (Adv Microsoft Word)	1.5

List A: Select One (3 Units)

CIS 43 (Professional Communications)	3
CNT 43 (Professional Communications)	3
CS 43 (Professional Communications)	3

List B: Select from Below (4 Units)

BUSN 30 (Business Ethics and Society)	3
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CIS 55 (Integrating Office Applications)	4
CIS 72A (Data Management)	1
CIS 72B (Basic Office Integration)	1
CIS 73A (Ten-Key Skill Development)	1
CIS 75 (Office Technology/Communications)	1
CIS 89A (Desktop Presentation)	1

Total Units 29

Keyboarding Competency

Students must demonstrate keyboarding speed of 40 net words per minute. Competency can be met by completing Computer Information Systems 71C with a "C" or better or by presenting a Las Positas College Verification of Proficiency certifying 40 net words per minutes in a five (5) minute timing.

Certificate of Achievement Administrative Medical Assistant

About the Certificate

The Certificate of Achievement in Administrative Medical Assistant provides students with the required knowledge to work in healthcare providers offices such as physicians' offices, ancillary healthcare providers such as physical therapy, laboratory, radiology, and a wide variety of other supportive healthcare agencies. Courses in this comprehensive program provide a broad foundation of computer skills, healthcare terminology, and medical office skills designed to acquaint students with the roles and responsibilities related to the healthcare field, medical office procedures, healthcare finance and insurance issues, and actual practice in the healthcare arena.

Career Opportunities

Jobs include working in a physician's office, clinical laboratory, hospital admissions and records, urgent care centers, surgical clinics, physical therapy clinics, radiology centers, and medical billing practices.

Program Outcomes

- Upon completion of the Certificate of Achievement in Administrative Medical Assistant, students are able to demonstrate an understanding of basic anatomy, physiology, and disease processes of the human body as it relates to patient medical history.
- Upon completion of the Certificate of Achievement in Administrative Medical Assistant, students are able to describe the characteristics and personal qualities that are important for an Administrative Medical Assistant and the importance of ethics, customer service and teamwork in the workplace.

Required Core: (15.5 Units)

BIO 20 (Contemporary Human Biology)	3
BIO 55 (Orientation to Health Care)	2
CIS 43 (Professional Communications) or CNT 43 (Professional Communications) or CS 43 (Professional Communications)	3
CIS 75 (Office Technology/Communications)	1

CIS 79 (Medical Office Procedures).....	3
EMS 62 (Basic Medical Terminology).....	3
EMS 70 (CPR for Health Care Providers).....	0.5

List A: Select One (2-4 Units)

CIS 8 (Essential Computing Skills).....	2
CIS 55 (Integrating Office Applications).....	4

List B: Select One (3 Units)

WRKX 94 (Occupational Work Experience/Internship).....	3
WRKX 95 (General Work Experience).....	3

Total Units 20.5-22.5

**Certificate of Achievement
Cloud Computing**

About the Certificate

The Cloud Computing Certificate of Achievement is designed for people who are seeking employment with companies that use cloud computing. The program provides 16-18 units of instruction on the industry standard skills to understand and develop applications for the cloud. Students learn a range of topics that cover the technical principals of the hardware and software requirements to run systems in the cloud including storage, database management, and software systems, while maintaining secure access.

Career Opportunities

Career Opportunities include, but are not limited to, Cloud Practitioner, Cloud Solutions Architect, Operational Support Engineer, Cloud Software Engineer, Cloud Developer, and DevOps Engineer.

Program Outcomes

- Upon completion of the Certificate of Achievement in Cloud Computing, students are able to host a database and run queries using an interface from a commercial provider and run a file-server service using a provider of their choice.

Required Core: (12 Units)

CIS 81A (Introduction to Cloud Computing).....	3
CIS 81B (Database Essentials in the Cloud).....	3
CIS 81C (Compute Engines for Cloud Computing).....	3
CIS 81D (Security Services in the Cloud).....	3

List A: Select Two (4-6 Units)

CIS 82A (AWS Cloud Practitioner Certification Prep).....	2
CIS 82B (AWS Academy Cloud Solutions Architecture Certification Prep).....	2
CS 7 (Introduction to Computer Programming Concepts).....	3
CS 41 (Red Hat Linux Administration I) or CNT 7401 (Red Hat Linux Administration I).....	3

Total Units 16-18

**Certificate of Achievement
Computer Applications Software**

About the Certificate

The Certificate of Achievement in Computer Applications Software is designed to prepare students to perform web development and programming, as well as basic data entry using standard and customized software products. This includes instruction in keyboarding skills, personal computer and workstation operation, and various interactive software programs used for tasks such as word processing, spreadsheets, databases, and others.

Career Opportunities

Career Opportunities include, but are not limited to, administrative assistant, receptionist, database manager, web design, desktop publishing office manager, and administrative support.

Program Outcomes

- Upon completion of the Certificate of Achievement in Computer Applications Software, students are able to create appropriate business documents including reports, letters, emails, project plans, messages, and websites, and apply standard business English including grammar, punctuation, and mechanics.
- Upon completion of the Certificate of Achievement in Computer Applications Software, students are able to analyze a business problem and develop a solution using appropriate application software.

Required Core: (23 Units)

CIS 43 (Professional Communications).....	3
CIS 50 (Intro to Computing Info Tech).....	3
CIS 54 (Excel: Intro to Spreadsheets).....	4
CIS 55 (Integrating Office Application).....	4
CIS 57 (Database Concepts).....	3
CIS 75 (Office Technology/Communications).....	1
CIS 88A (Introduction to Microsoft Word).....	1.5
CIS 88B (Adv Microsoft Word).....	1.5
CIS 89A (Desktop Presentation).....	1
CIS 89B (Desktop Publishing).....	1

List A: Select Two (6 Units)

CIS 46 (Game Programming: 2D and 3D).....	3
CIS 59 (Web Dev: HTML/CSS/Javascript).....	3
CIS 59C (Web Programming – JavaScript).....	3
CS 7 (Introduction to Computer Programming Concepts).....	3

List B: Select from the Following (4-6 Units)

CIS 55B (Advanced MS Office Skills).....	2
CIS 60 (Systems Analysis and Design).....	3
CIS 62 (Project Management).....	3
CIS 66 (Networking Fundamentals).....	3
CNT 51 (CompTIA's A+ Certification Computer Technician).....	4

List C: Select One (1-2 Units)

CIS 65 (Introduction to Desktop Operating Systems).....	2
CIS 84 (Windows).....	1
Total Units	34-37

Certificate of Achievement Data Analytics

About the Certificate

The Certificate of Achievement in Data Analytics will provide students with a solid foundation in the fields of data analytics, business intelligence analysis, or data science. The purpose of this certificate is to prepare students for entry-level positions or to help advance into careers in data collection, data processing, data analysis and to provide a foundation for future training in data science and big data analysis. Students will learn how to make business decisions based upon the analysis of large amounts of data. Students will learn about processing, integrating, modeling, mining, and analytics related to Big Data. Students will use frameworks, tools, services, and programming languages to analyze data. Courses will integrate Google Data Analyst Professional Career Certificate content, giving students the ability to achieve an important industry certification.

Career Opportunities

Big data analytics is used by a broad range of industries including banking, communications, healthcare, government and transportation. Career Opportunities include, but are not limited to, Business Intelligence Analysts, Data Analysts, Big Data Technologist.

Program Outcomes

- Upon completion of the Certificate of Achievement in Data Analytics, the student will be able to describe the purpose, potential uses, and methods of data collection and analyses in a variety of industries.
- Upon completion of Certificate of Achievement in Data Analytics, the student will be able to use common data analysis and management tools to design, create, query, and manage managing databases for analytic processing.

Required Core: (13 Units)

CIS 10 (Business Data Analytics)	3
CIS 11 (Data Visualization Tools)	3
CIS 9002 (Introduction to Database Management)	3
CIS 54 (Excel: Intro to Spreadsheets)	4

List A: Select One (3 Units)

BUSN 55 (Business Mathematics).....	3
CIS 7 (Introduction to Programming Concepts and Methodologies)..	3
CIS 60 (Systems Analysis and Design)	3
CIS 81B (Database Essentials in the Cloud).....	3
CS 7 (Introduction to Computer Programming Concepts).....	3

Total Units 16

Certificate of Achievement Project Management

About the Certificate

This certificate program is designed for individuals who want to become project managers in their respective industries. Project Management is an important responsibility as more organizations use teams and project-based methods to get work done. Using a practicum-based approach, students apply the Project Management Book of Knowledge (PMBOK)[®] Guide to develop project management skills, and develop skills to enhance teamwork and communication. This certificate program introduces students to a career in project management and further prepares professionals who are already working in the field.

Career Opportunities

Career opportunities include but are not limited to: assistant/associate project manager, project coordinator, project scheduler, IT project manager, software project manager, office manager, event planner, and administrative assistant.

Program Outcomes

- Upon completion of the Certificate of Achievement in Project Management, students are able to analyze a business situation and prepare a response using appropriate business documents including reports letters, emails, and project plans that are clear, compelling, analytical, grammatically correct, and concise.
- Upon completion of the Certificate of Achievement in Project Management, students are able to develop survey questions to determine client requirements, develop project plans that ensure client satisfaction, and demonstrate clear, concise, and analytical writing.

Required Core: (9 Units)

CIS 50 (Introduction to Computing Information Technology)	3
CIS 60 (Systems Analysis and Design)	3
CIS 62 (Project Management)	3

List A: Select One (3-4 Units)

BUSN 52 (Business Communications).....	3
BUSN 56 (Introduction to Management)	3
CIS 43 (Professional Communications)	3
CNT 43 (Professional Communications).....	3
CS 43 (Professional Communications).....	3
CIS 54 (Excel: Intro to Spreadsheets)	4

Total Units 12-13

Certificate of Achievement Web Development

About the Certificate

The Web Development certificate program is designed to provide

students skills that will enable them to develop interactive and dynamic websites. Course work includes web site development using HTML5 and CSS3, programming and scripting for the web using JavaScript and JQuery, and accessing data stored in databases using PHP and MySQL. Electives in the program enable students to develop skills in managing projects, designing effective user interfaces, using content management systems, and working with graphic images.

Career Opportunities

Careers include but are not limited to: web technician, web designer, web programmer, web content developer, and web site developer.

Program Outcomes

- Upon completion of the Certificate of Achievement in Web Development, students are able to create basic web pages that contain text (utilizing different fonts and colors), hyperlinks to other web sites, graphic images and sound.
- Upon completion of the Certificate of Achievement in Web Development, students are able to create web pages that incorporate JavaScript controls.

Required Core: (9 Units)

CIS 59 (Web Dev: HTML/CSS/Javascript)	3
CIS 59C (Web Programming - JavaScript).....	3
CIS 92 (Web: PHP Programming, MySQL)	3

List A: Select Two (6 Units)

CIS 50 (Introduction to Computing Information Technology)	3
CIS 62 (Project Management)	3
GDDM 2 (Wordpress and Content Management Systems)	3
GDDM 4 (User Interface and User Experience Design)	3
GDDM 53 (Photoshop I)	3

Total Units 15

Computer Information Systems Courses (CIS)

CIS 7 INTRODUCTION TO PROGRAMMING CONCEPTS AND METHODOLOGIES 3 UNITS

An introduction to the fundamental concepts and models of application development including the basic concepts of program design, data structures, programming, problem solving, programming logic, and fundamental design techniques for event-driven programs. Hands-on experience with a modern application object-oriented programming language and development platform such as Python/Visual Basic.NET/R Studio. Strongly Recommended: CIS 50 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. AA/AS GE: IB. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 8 ESSENTIAL COMPUTING SKILLS 2 UNITS

Fundamental computer competency course designed to develop the basic computer skills and knowledge required in today's technological world. Basic computer competency is no longer a nicety, but a necessity in our personal and work lives. Topics include: basic computer hardware/software, networks and the Internet, effective web searches, file management skills, and cloud storage options. Hands-on experience with word processing, spreadsheet, presentation, and database software using Microsoft Office. No previous experience with computers is required. 27 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 10 BUSINESS DATA ANALYTICS 3 UNITS

Students explore data analytic practices and its applicability in the business world. Business Intelligence (BI) is a data analysis process which utilizes an integrated set of application systems, processes, and tools that transform raw data into meaningful and useful information for business analysis. Students will learn the fundamentals of business analysis and BI tools and processes that help businesses make strategic and tactical decisions based on data. The process of business decision-making will be applied with an emphasis on data mining. Careers and emerging trends in the field will be evaluated. Strongly Recommended: CIS 54 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 11 DATA VISUALIZATION TOOLS 3 UNITS

Data visualization is the process of representing information graphically. This course provides a hands-on introduction to various data visualization tools such as Tableau, Excel, Power BI, R Studio. Students use repositories of data for preparation that includes: data formatting, filtering and cleaning. Design principles are applied to create meaningful displays of quantitative and qualitative data to facilitate managerial decision-making. Strongly Recommended: CIS 54 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 41 CYBERSECURITY CAMP 1 UNIT

This course will introduce the novice to cyber security career opportunities, cyber ethics, online safety, and cyber threats. Students will be introduced to cybersecurity principles, virtual machines, basic Windows and Linux administration security policies, fundamental CISCO network routing and CISCO packet tracer. As a culminating activity students will compete by analyzing and fixing vulnerabilities on the provided Windows and Linux images. Strongly Recommended: CIS 50 with a minimum grade of C and/or CNT 51 with a minimum grade of C. 9 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 42 CYBERSECURITY COMPETITION PREP 0.5 UNITS

This course prepares students to participate in cybersecurity competitions (CyberPatriot, National Cyber League, etc). Topics include an overview of cyber competitions, virtual machines, Linux operating systems and administration, Windows operating systems and administration, CISCO networking, and packet tracer. Through business scenarios, students will create checklists of potential

vulnerabilities and work in teams to secure networks and sensitive data. Strongly Recommended: CIS 41 with a minimum grade of C. 27 hours laboratory.

Degree Applicable, Credit Grading Option: OP

CIS 43 PROFESSIONAL COMMUNICATIONS 3 UNITS

This course applies the principles of ethical and effective communication to the creation of letters, memos, emails, and written and oral reports for a variety of business situations. The course emphasizes critical thinking and analysis, planning, organizing, composing, and revising business documents to create and deliver professional-level oral presentations in-person and virtually. Additional focus will be placed on developing interpersonal skills, team participation skills, and technical report writing skills. Students who have completed or are enrolled in CNT 43 or CS 43 may not receive credit. Strongly Recommended ENG 1A - Critical Reading and Composition with a minimum grade of C or ENG 1AEX - Critical Reading and Composition Expanded with a minimum grade of C. 54 hours lecture. AA/AS GE: IB. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 44 IT FUNDAMENTALS+ 2 UNITS

Information Technology Fundamentals+ (ITF+) is the essential qualification for exploring a career in IT. This course will cover the topics of the CompTIA IT Fundamentals certification, which validates the knowledge and skills required to identify and explain the basics of computing hardware and software, IT infrastructure, applications and software, software development concepts, database fundamentals, and security. Technologies and trends of the IT industry and the exploration of IT careers. This course will prepare you to take the CompTIA certification exam. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 50 INTRODUCTION TO COMPUTING INFORMATION TECHNOLOGY 3 UNITS

A comprehensive introduction to the concepts of management and information systems used in business and similar organizations. Covers the role of information systems in business, the need for data and information, how computers are used in business and other organizations to provide information. Focus on information systems, database management system, networking, e-commerce, ethics and security, computer system hardware and software components. Students will interactively solve applied problems utilizing software productivity tools such as: word processors, spreadsheets, databases, presentation, WWW, and programming languages. Introduce the analytical, written and oral communication skills necessary to communicate effectively in a business computing environment. 54 hours lecture, 18 hours laboratory. AA/AS GE: IB. Transfer CSU, UC; C-ID# BUS 140.

Degree Applicable, Credit Grading Option: OP

CIS 54 EXCEL: INTRO TO SPREADSHEETS 4 UNITS

This is a comprehensive spreadsheet class using Microsoft Excel to create a variety of spreadsheets with emphasis on business

applications. Introductory, intermediate, and advanced topics are covered. Introductory topics include entering, editing, and formatting data, creating basic formulas using arithmetic operator and functions, creating charts, saving and printing worksheets. Intermediate topics include using Excel's Table features for sorting filtering and summarizing data, creating PivotTables, working with multiple worksheets and workbooks, naming cells, data validation, recording macros, and protecting worksheets. Advanced topics include using financial functions such as PMT, RATE, FV, creating nested IFs, using VLOOKUP and HLOOKUP functions, using What-If analysis tools such as Goal Seek, one and two variable Data Tables, and Scenario Manager, sharing workbooks, and integrating Excel with other Office applications. Strongly Recommended: CIS 50 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 55 INTEGRATING OFFICE APPLICATIONS 4 UNITS

Develop essential workplace application skills using current Microsoft Office including; Word, Excel, PowerPoint, Access, One Note, Outlook, cloud storage and cloud processing. Emphasis is to design, produce and integrate documents, worksheets, databases and professional presentations. The use of Object Linking and Embedding (OLE) to integrate, share, and collaborate data within and between applications. Strongly Recommended: CIS 50 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 55B ADVANCED MS OFFICE SKILLS 2 UNITS

Using a project-based, problem-solving approach, this course focuses on advanced features and integration of the core applications in the Microsoft Office suite (Word, Excel, PowerPoint, and Access). Strongly Recommended: CIS 55 with a minimum grade of C. 27 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 57 DATABASE CONCEPTS 3 UNITS

Introduction to Database Concepts, a computer program that is used to organize, store, and retrieve information. Understanding of data, database structure, and database objects using Microsoft Access or similar programs with emphasis on business applications. Identify and evaluate client needs/requirements and translate those needs into a working database application model. Integrate Microsoft Access data with other Microsoft applications, such as Word and Excel. Strongly Recommended: CIS 50 with a minimum grade of C and CIS 55 with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 59 WEB DEV: HTML/CSS/ JAVASCRIPT 3 UNITS

This course will provide a fundamental understanding of the methods and techniques of developing a simple to moderately complex web site. Topics include: creating webpages with current standard webpage language (HTML), cascading style sheets (CSS), and Javascript. Exploration of incorporating images, audio/visual media,

and interactive tools like forms and image maps. This course prepares apprentice Web developers to identify the information needs of a client, design appropriate WWW solutions, and implement them. Strongly Recommended: CIS 50 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 59C WEB PROGRAMMING - 3 UNITS
JAVASCRIPT

Develop client-side, interactive webpages using JavaScript and/or jQuery scripting languages. Write JavaScript scripts that manipulate with the JavaScript Document Object Model (DOM), control program flow, validate forms, animate images, target frames, and create cookies. Strongly Recommended: CIS 59 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 60 SYSTEMS ANALYSIS AND 3 UNITS
DESIGN

The course presents a systematic methodology for analyzing a business problem or opportunity, determining the role which computer-based technologies can play in addressing the business need, articulating business requirements for the technology solution, specifying alternative approaches to acquiring the technology capabilities needed to address the business requirements, and specifying the requirements for the information systems solution in particular, in-house development, development from third-party providers, or purchased commercial-off-the-shelf packages. Provides the opportunity to compare the systems development life cycle (SDLC) processes like Waterfall, Agile. Strongly Recommended: CIS 50 with a minimum grade of C. 54 hours lecture, 18 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 62 PROJECT MANAGEMENT 3 UNITS

Using the Project Management Institute's (PMI) Guide to the Project Management Body of Knowledge (PMBOK) and the Agile SCRUM framework, learn the basic characteristics of projects and project management, with emphasis on the five PMBOK project process groups of initiating, planning, executing, controlling, and closing and the nine knowledge areas of project integration. This introductory course covers the terminology you will need to know, how all the project management processes are linked together, the key areas of expertise you need to know to manage projects successfully. This course focuses on developing project management skills needed in typical technical and business environments. Objectives of project management industry certifications including Project+, CAPM, PMP will be reviewed. Strongly Recommended: CIS 60 with a minimum grade of C. 54 hours lecture, 18 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 65 INTRODUCTION TO DESKTOP 2 UNITS
OPERATING SYSTEMS

By performing numerous hands-on labs, students in this class will gain an understanding of the most widely used desktop operating systems (including Windows, Apple OS X, and Linux) using command line and GUI interfaces. Students will use virtualization software to install and configure operating systems and user

applications on a class room computer. Students will also experiment with remote computing and storage. The course includes information on mobile operating systems, as well as chapters on subjects peripheral to operating systems, such as computer security, desktop virtualization, and connecting computers and mobile devices to networks. Strongly Recommended: CIS 50 with a minimum grade of C. 18 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 66 NETWORKING 3 UNITS
FUNDAMENTALS

This course provides an introduction to computer networking fundamentals skills needed to meet the industry demand for entry-level Network Technicians. Topics include: Ethernet network fundamentals, Local Area Networks (LANs), and Wide Area Networks (WAN) technologies, the Open Systems Interconnection (OSI) model, wiring implementations, network adapters and connectivity devices, IPv4/IPv6 addressing, Voice over IP (VoIP), and wireless standards. Tools to help prevent cyber attacks with IDS (Intrusion Detection Systems), authentication, and encryption are demonstrated. Student labs include: configuration of a SOHO (Small Office/Home Office), a firewall, a virtual private network (VPN), a switch, and a router and documenting a networking using professional drawing software. The responsibilities of an ICT (Information and Communications Technology) professional will be introduced. This course prepares students for the CompTIA Network+ Certification Exam. This professional certification verifies the student has the knowledge equivalent to that of an ICT technician with about 12 months of hands-on experience. Students who have completed or are enrolled in CNT 52 may not receive credit. Strongly Recommended: CIS 50 with a minimum grade of C. 54 hours lecture, 18 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 71 COMPUTER TYPING 1 UNIT

Individualized, hands-on courses in computer keyboarding. Upon individual assessment of keyboard skills, students are transferred into one of the following modules: CIS 71A Keyboarding (The Alphabet), CIS 71B Keyboard (Numbers & Symbols), or CIS 71C Skills Improvement. 54 hours laboratory.

Degree Applicable, Credit Grading Option: OP

CIS 71A KEYBOARDING 1 UNIT
(THE ALPHABET)

Introduction to the alphabet letter keys on the computer keyboard for touch-typing. Learn basic keyboarding techniques for accuracy and speed. This course is the first in a series of sequential courses in keyboarding instruction. Students are advised to take these courses in sequence for best training results. 54 hours laboratory.

Degree Applicable, Credit Grading Option: OP

CIS 71B KEYBOARD 1 UNIT
(NUMBERS AND SYMBOLS)

Introduction to the numbers and symbol keys on the computer keyboard for touch typing. Review of alphabetic keys and common punctuation marks. Speed building and accuracy improvement. Strongly Recommended: CIS 71A with a minimum grade of C. 54 hours laboratory.

Degree Applicable, Credit Grading Option: OP

CIS 71C SKILLS IMPROVEMENT 1 UNIT

Development of keyboarding skill for those students who have learned the location of the keys on the keyboard by touch and are ready to increase speed and accuracy. Practice keyboarding control of speed and accuracy on straight copy, rough draft copy, and copy with numbers, and symbols. Skill progress is measured by keying text within specified time limits. Students should know the location of the keys on the keyboard before attempting this course. This course is the third module in a sequential series of beginning keyboarding instruction. Strongly Recommended: CIS 71B with a minimum grade of C. 54 hours laboratory.

Degree Applicable, Credit Grading Option: OP

CIS 72A DATA MANAGEMENT 1 UNIT

Individualized instruction on the theory and practice of alphabetic, numeric, geographic, and subject filing. Basic principles of filing and effective records management for both paper and electronic filing systems. Introduction to database functions, such as enter, editing, finding, and deleting records, creating queries, and printing report. 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 72B BASIC OFFICE INTEGRATION 1 UNIT

Using a project-based approach, students will be introduced to features that enable data to be transferred between programs such as Microsoft Office applications or Google applications. Using the techniques introduced in this course, students will be able to incorporate data and charts created in Excel or Google Sheets into Word or Google Docs documents and PowerPoint or Google Presentations, use worksheet data to create tables in an Access database, and use a Word or Google Docs documents to create presentations. Strongly Recommended: CIS 50 with a minimum grade of C or CIS 8 with a minimum grade of C. 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 73A TEN-KEY SKILL DEVELOPMENT 1 UNIT

Skill development on the computer numeric keypad, electronic calculator including use of memory functions, and data entry using spreadsheets. 54 hours laboratory.

Degree Applicable, Credit Grading Option: OP

CIS 74 OFFICE PROCEDURES 3 UNITS

Introduction to office principles, procedures, and technology. Topics include telephone skills, office equipment, working effectively in a team environment, records management, customer service, meeting/event planning, postal/shipping services, utilizing the internet for on-line services and resources, using appropriate software to complete common tasks, written and oral business communications, conflict resolution, and office etiquette. Prepares administrative professionals to work in a diversified workforce with emerging technologies. (Formerly BUSN 74.) Strongly Recommended: CIS 8 with a minimum grade of C and CIS 71C with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 75 OFFICE TECHNOLOGY/ COMMUNICATIONS 1 UNIT

Overview of various technologies (such as video-conferencing, cloud services and storage, mobile devices) used for communicating internally and externally in the workplace. Hands-on practice with Outlook (email, contact management, calendaring), cloud-based applications and data storage, and telephone techniques. Strongly Recommended: Eligibility for ENG 1A, CIS 71A with a minimum grade of C. 54 hours laboratory.

Degree Applicable, Credit Grading Option: OP

CIS 79 MEDICAL OFFICE PROCEDURES 3 UNITS

Medical office principles and procedures to include telecommunications, scheduling appointments, office equipment, medical documents and word processing, managing medical records, recordkeeping, expense reports, petty cash, billing, postal services, health insurance, coding, and utilizing the Internet for online resources. The importance of medical ethics in application of professional office behavior. Overview of medical law and careers in medical office environment. Strongly Recommended: CIS 8 with a minimum grade of C, CIS 88A with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 81A INTRODUCTION TO CLOUD COMPUTING 3 UNITS

This course introduces cloud computing which shifts information systems from on premises computing infrastructure to highly scalable internet architectures using current cloud platforms such as AWS, AZURE. The course provides a basic understanding of cloud computing technologies and provides students with the understanding required to effectively evaluate and assess the business and technical benefits of cloud computing and cloud applications. Students analyze a variety of cloud services (storage, servers, software applications), then learn to configure, deploy, and manage cloud facilities. The course also demonstrates/makes available the AWS and/or AZURE platforms for educational, industry career path guidance and career opportunities. This course surveys cloud careers and explores industry demand for cloud skills. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 81B DATABASE ESSENTIALS IN THE CLOUD 3 UNITS

This course addresses cloud database management which supports a number of different approaches for storing data. In the course, students define, operate and scale both SQL and noSQL data storage solutions. This course considers factors that should be balanced during the design of a storage solution. Principles are applied by performing exercises using Amazon RDS and SQL to create and fill tables, retrieve and manipulate data. Object-based APIs are used to serialize objects to Amazon DynamoDB for noSQL solutions. Topics include automated backups, transaction logs, restoration and retention. Strongly Recommended: CIS 81A with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 81C COMPUTE ENGINES FOR CLOUD COMPUTING 3 UNITS

In this course, students explore how cloud computing systems are built using a common set of core technologies, algorithms, and design principles centered around distributed systems. Students will use current cloud platforms such as AWS, AZURE to provision, load-balance and scale their applications. The course discusses, from a developer perspective, the most important reasons for using cloud computing and examines the underlying design principles of scalable cloud applications. Strongly Recommended: CIS 81A with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 81D SECURITY SERVICES IN THE CLOUD 3 UNITS

This course focuses on protecting the confidentiality, integrity and availability of computing systems and data. Students learn how Amazon Web Service (AWS) uses redundant and layered controls, continuous validation and testing, and a substantial amount of automation to ensure the underlying infrastructure is continuously monitored and protected. Students examine the AWS Shared Responsibility Model and access the AWS Management Console to learn more about security tools and features provided by the AWS platform. Strongly Recommended: CIS 81A with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 82A AWS CLOUD PRACTITIONER CERTIFICATION PREP 2 UNITS

This introductory course provides an overview of cloud concepts, Amazon Web Services (AWS) core services, basic security, architecture principles, pricing, and technical support. Students gain an overall understanding of the AWS Cloud, independent of specific technical roles. Review of core characteristics of deploying and operating in the AWS Cloud. This course prepares students to pursue becoming an AWS Certified Cloud Practitioner using official AWS Academy Cloud Foundations material. Strongly Recommended: CIS 81A with a minimum grade of C. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 82B AWS ACADEMY CLOUD SOLUTIONS ARCHITECTURE CERTIFICATION PREP 2 UNITS

This course focuses on teaching technical expertise in cloud computing and the skills needed to pursue AWS Certified Solutions Architect - Associate certification. This course is delivered through lectures, hands-on labs, and project work. Students have access to course manuals, online knowledge assessments, hands-on labs, practice certification exam, and discount voucher for the certification exam. Strongly Recommended: CIS 82A with a minimum grade of C. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 84 WINDOWS 1 UNIT

Hands-on class introducing Microsoft Windows operations. Topics include: logging in, the Windows Desktop, launching applications, working with multiple applications windows, proper shutdown

techniques, and using Microsoft Edge to browse the web. File and folder management are also covered including creating folders, copying and moving files and folders, searching for specific files, and navigating drives and folders. 9 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 88A INTRODUCTION TO MICROSOFT WORD 1.5 UNITS

Develop the skills needed in the workplace to produce common business documents, such as letters, resumes, flyers, and reports. Topics include document creation and editing; use of Microsoft Word features to apply character and paragraph formatting; creating and formatting tables, enhancing visual appeal by incorporating graphics elements, using the mail merge feature, and printing documents. Strongly Recommended: CIS 71A with a minimum grade of C. 18 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 88B ADV MICROSOFT WORD 1.5 UNITS

Advanced word processing techniques used to produce complex business documents. Includes topics such as format multiple page reports, create tables of contents and indexes, insert footnotes/endnotes, using Word's collaboration features to share documents, create macros to automate tasks, and integrate data from Excel and other programs. Strongly Recommended: CIS 88A with a minimum grade of C. 18 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 89A DESKTOP PRESENTATION 1 UNIT

Desktop presentation design techniques and enhancements. Application using current desktop presentation software. Hands-on experience creating, editing, saving, printing slide shows, incorporating graphics, charts, tables, SmartArt, sounds, and video, enhancing presentations using transitions and animations. 9 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 89B DESKTOP PUBLISHING 1 UNIT

Design professional-looking documents such as newsletters, flyers, and brochures quickly and easily using Microsoft Publisher. 9 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 92 WEB: PHP PROGRAMMING, MYSQL 3 UNITS

This course showcases the popular and powerful PHP (Hypertext Preprocessor), an open source, server-side scripting language that can be easily integrated with HTML and SQL. For web developers who need to add dynamic content to their web sites, including form processing, database-driven content, password protection, cookie processing. You will learn how PHP can be combined with MySQL to integrate database functions into websites. Strongly Recommended: CIS 59 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 9001 DATABASE DESIGN 3 UNITS
METHODOLOGY

This course provides students with a vendor-neutral introduction to and an overview of database systems; including database design, conceptual, logical and physical data modeling, Entity Relationship models. This course includes sections on relational databases, Structured Query Language (SQL) and optimizing databases through normalization. You will apply your knowledge with hands-on labs designed to apply the intricacies of database design methodology. Strongly Recommended: CIS 57 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 9002 INTRODUCTION TO 3 UNITS
DATABASE MANAGEMENT

This course provides the students with an introduction to the core concepts in data and information management. It is centered around the core skills of identifying organizational information requirements, modeling them using conceptual data modeling techniques, converting the conceptual data models into relational data models and verifying its structural characteristics with normalization techniques, and implementing and utilizing a relational database using an industrial-strength database management system. The course will also include coverage of basic database administration tasks and key concepts of data quality and data security. In addition to developing database applications, the course helps the students understand how large-scale packaged systems are highly dependent on the use of Database Management Systems (DBMSs). Building on the transactional database understanding, the course provides an introduction to data and information management technologies that provide decision support capabilities under the broad business intelligence umbrella. In database design, students learn to analyze business scenarios, create data models, and a conceptual representation of an organization's information. In database programming, students implement their database design by creating a physical database using Structured Query Language (SQL) to create, query, manipulate, and control access to the data in a relational database. Students learn to create and maintain database objects such as tables, indexes, views, constraints, and sequences. Strongly Recommended: CIS 50 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 9003 ORACLE: DATABASE 3 UNITS
PROGRAMMING WITH PL/SQL

This course introduces students to Procedural Language/Structured Query Language (PL/SQL) through a project-based approach. Learn procedural logic constructs such as variables, constants, conditional statements and iterative controls; then execute, and manage PL\SQL stored program units such as procedures, functions, packages, and database triggers. Learn the basic functionality of how to debug functions and procedures using the SQL Developer Debugger. Manage PL/SQL subprograms, triggers, declaring identifiers and trapping exceptions. Strongly Recommended: CIS 9002 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 9005 ORACLE: APEX APPLICATION 3 UNITS
DEVELOPMENT

Introduction to the techniques and tools required to develop database driven web applications using Oracle Application Express (APEX). Using only a web browser and limited programming experience, you can develop and deploy professional applications. Students study how to design, develop and deploy responsive database-driven web applications using APEX. APEX integrated development environment is utilized to provide practical, hands-on activities. Strongly Recommended: CIS 9002 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

COMPUTER NETWORKING TECHNOLOGY

The Computer Networking Technology program prepares students for a variety of career opportunities in the networking field. CNT classes prepare students for industry certifications such as Cisco CCNA, Microsoft MCSA, and CompTIA Net+, Security+ and A+. Coursework includes targeted skills training in emerging technologies, such as Cloud Computing, IoT, Virtualization, Wireless, Computer Forensics, Incident Response, Network Security and OS Hardening. Many of these subjects have become required knowledge even in other career fields. Students in Business, Sciences, Arts, and Administration of Justice may need skills in network technologies to excel in their fields. The Certificate of Achievement and Career Certifications provide quick paths to validate training in today's important tech knowledge areas. The program also includes an AS degree in Network Security and Administration. This degree incorporates the latest in emerging technologies and skills employers are seeking.

Programs of Study

Degrees:

- AS – Cybersecurity and Network Administration

Certificates of Achievement:

- Cybersecurity Professional
- IT Support Professional
- Network Support Professional

Career Opportunities

Career opportunities include systems administrator, systems engineer, computer technician, customer service representative, help desk specialist, network administrator, and technical support specialist. More information can be found at:

<http://www.laspositascollege.edu/compstudies/index.php>

AS – Cybersecurity and Network Administration

About the Degree

The Associate of Science in Cybersecurity and Network Administration degree was developed in conjunction with our local national labs and industry partners to provide students with a solid background in the fields of Computer Networking and Cybersecurity. The focus on Cybersecurity will provide the student with many of the important skills needed for an entry-level career in Cybersecurity. The courses provide an overview of the entire field. Topics covered will include Cisco Security, Windows Operating System security, Linux security, firewalls, cloud computing, security policies and procedures, e-mail & web security, and designing and building a secure computer network.

Career Opportunities

Students who complete the Associate of Sciences in Network Security and Administration degree will be prepared for careers in: Network Specialist/Technician/Engineer, Systems Specialist/Technician/Engineer, Microsoft Specialist/Technician/Engineer, Cisco Specialist/Technician/Engineer, Information Security Specialist, Cybersecurity Specialist, IT Specialist Information Security, IT Security Specialist/Consultant, Information Technology Specialist information Security, Incident Analyst/Responder, IT Auditor, Cyber Crime Analyst/Investigator, Cybersecurity Specialist/Technician, Cyber Risk Analyst, Cybersecurity Analyst, Cybersecurity Consultant, Information Security Consultant, Penetration & Vulnerability Tester, Cybersecurity Manager/Administrator, Cybersecurity Engineer, Cybersecurity Architect.

Program Outcomes

- Upon completion of the AS in Network Security and Administration, students are able to analyze, design, and document computer and network specifications to meet client needs.
- Upon completion of the AS in Network Security and Administration, students are able to demonstrate professional behavior such as working in a team and communicating in a professional manner.
- Upon completion of the AS in Network Security and Administration, students are able to explain the basic objectives of cybersecurity and the importance of information security.
- Upon completion of the AS in Network Security and Administration, students are able to install, configure, and manage computer and network hardware.
- Upon completion of the AS in Network Security and Administration, students are able to install, configure, and manage operating systems.

Required Core: (37 Units)

CNT 51 (CompTIA's A+ Certification Computer Technician)	4
CNT 52 (Networking Fundamentals) or CIS 66 (Networking Fundamentals)	3

CNT 55 (MCSA I Windows Server Installation, Storage, and Compute).....	3
CNT 68 (Digital Forensics Fundamentals)	3
CNT 69 (Network Security; CompTIA Security+ Certification).....	3
CNT 7285 (Cloud Infrastructure: CompTIA Cloud+ Certification).	3
CNT 7401 (Red Hat Linux Administration I) or CS 41 (Red Hat Linux Administration I)	3
CNT 7501 (Ethical Hacking)	3
CNT 8001 (Cisco CCNA1/3 Introduction to Networks (ITN)	3
CNT 8002 (Cisco CCNA2/3 Switching, Routing, and Wireless Essentials (SRWE)	3
CNT 8003 (Cisco CCNA3/3 Enterprise Networking, Security, and Automation v7.0 (ENSA)).....	3
CIS 43 (Professional Communications) or CNT 43 (Professional Communications) or CS 43 (Professional Communications).....	3

Program-Based GE[^]: (3 Units)

CIS 50 (Introduction to Computing Information Technology)	3
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Total Units for the Major 37

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Cybersecurity Professional

About the Certificate

The Las Positas Computer Network Technology program offers courses that lead to a Certificate of Achievement in Cyber Security. The certificate prepares students for direct job entry covering a wide array of professions such as Cyber Security Engineer, Security Administrator as well as Security Architect. This program also prepares the student for the fast paced changes in Cyber Security technologies as they emerge in the industry to assure a well prepared graduate for the marketplace.

Career Opportunities

CyberSecurity Engineer, CyberSecurity Specialist, Forensic Computer Analyst, Penetrator Tester, Security Architect, Security Systems Administrator.

Program Outcomes

- Upon completion of the Certificate of Achievement in CyberSecurity, students are able to use analytical thinking and critical analysis skills necessary to analyze and solve computer network security issues to help protect computers and computer networks using multiple operating systems.
- Upon completion of the Certificate of Achievement in CyberSecurity, students are able to use group collaboration and communications skills necessary to work effectively in a team to solve computer networking security issues and to document and present information on security risks and planned responses.

Required Core (37 Units)

CNT 51 (CompTIA's A+ Certification Computer Technician)	4
CNT 52 (Networking Fundamentals) or CIS 66 (Networking Fundamentals)	3
CNT 55 (MCSA I Windows Server Installation, Storage, and Compute)	3
CNT 68 (Digital Forensics Fundamentals)	3
CNT 69 (Network Security; CompTIA Security + Certification).....	3
CNT 7285 (Cloud Infrastructure: CompTIA Cloud+ Certification).3	
CNT 7401 (Red Hat Linux Administration I) or CS 41 (Red Hat Linux Administration I)	3
CNT 7501 (Ethical Hacking).	3
CNT 8001 (Cisco CCNA1/3 Introduction to Networks) (ITN).	3
CNT 8002 (Cisco CCNA2/3 Switching, Routing, and Wireless Essentials (SRWE).	3
CNT 8003 (Cisco CCNA3/3 Enterprise Networking, Security, and Automation v7.0 (ENSA).	3
CNT 43 (Professional Communications) or CIS 43 (Professional Communications) or CS 43 (Professional Communications).....	3
Total Units	37

Certificate of Achievement IT Support Professional

About the Certificate

This program includes curriculum from the Computer Technology Industry Association (CompTIA) and Google designed to prepare student for an entry-level role in IT support. Courses in this program introduce students to troubleshooting and customer service, networking, operating systems, system administration, and security — all the fundamentals of IT support that are critical for success in the workplace. Students successfully completing the program can achieve the Google IT Support Professional certificate and will be prepared to take the CompTIA A+, Network +, and Security + certification tests.

Career Opportunities

Students who obtain this certificate will be qualified for a number of careers in information technology including computer technician, network technician, systems technician, computer user support specialists, and desktop support.

Program Outcomes

- Upon completion of the Certificate of Achievement in IT Support Professional, students are able to achieve the Google IT Support Professional certificate and will be prepared to take the CompTIA A+, Network+, and Security+ certification tests.

Required Core: (13 Units)

CNT 51 (CompTIA's A+ Certification Computer Technician)	4
CNT 52 (Networking Fundamentals) or CIS 66 (Networking Fundamentals).....	3
CNT 55 (MCSA I Windows Server Installation, Storage, and Compute).....	3
CNT 69 (Network Security; CompTIA Security+ Certification).....	3

Total Units **13**

Certificate of Achievement Network Support Professional

About the Certificate

The Network Support Professional program prepares students for a variety of career opportunities targeting the information technology and computer networking fields. CNT classes prepare students for Cisco CCNA certification tests, Microsoft Server tests, and CompTIA Net+, Security+ and A+ tests. Constantly evolving and modernized classes include specific skills training in Emerging Technologies like Wireless, VoIP, VPN, Computer Forensics, Incident Response, Network Security and OS Hardening. Many of these subjects have become basic required knowledge even in other career fields. Students in Business, the Sciences, Arts and Administration of Justice will all need skills in network technologies to excel in their fields. This certificate incorporates the latest in Emerging Technologies and skills employers are seeking.

Career Opportunities

Network Administrator, Network Service Technician, Desktop

Program Outcomes

- Upon completion of the Certificate of Achievement in Network Service Technician, students are able to analyze, design and document computer network specifications to meet client needs.
- Upon completion of the Certificate of Achievement in Network Service Technician, students are able to demonstrate professional behavior such as working in a team and communicating in a professional manner.
- Upon completion of the Certificate of Achievement in Network Service Technician, students are able to install, configure, and manage client and server operating systems.
- Upon completion of the Certificate of Achievement in Network Service Technician, students are able to install, configure, and manage computer hardware.
- Upon completion of the Certificate of Achievement in Network Service Technician, students are able to configure a LAN with routing, Troubleshoot LAN configuration.

- Upon completion of the Certificate of Achievement in Network Service Technician, students are able to configure a WAN with routing, Troubleshoot WAN configuration.

Required Core: (25 Units)

CNT 51 (CompTIA's A+ Certification Computer Technician)	4
CNT 52 (Networking Fundamentals) or CIS 66 (Networking Fundamentals)	3
CNT 55 (MCSA I Windows Server Installation, Storage, and Compute).....	3
CNT 69 (Network Security; CompTIA Security+ Certification).....	3
CNT 8001 (Cisco CCNA1/3 Introduction to Networks (ITN)	3
CNT 8002 (Cisco CCNA2/3 Switching, Routing, and Wireless Essentials (SRWE)	3
CNT 8003 (Cisco CCNA3/3 Enterprise Networking, Security, and Automation v7.0 (ENSA).....	3
CNT 43 (Professional Communications) or CIS 43 (Professional Communications) or CS 43 (Professional Communications).....	3
Total Units	25

**Computer Networking
Technology Courses (CNT)**

CNT 43 PROFESSIONAL COMMUNICATIONS 3 UNITS

This course applies the principles of ethical and effective communication to the creation of letters, memos, emails, and written and oral reports for a variety of business situations. The course emphasizes critical thinking and analysis, planning, organizing, composing, and revising business documents to create and deliver professional-level oral presentations in-person and virtually. Additional focus will be placed on developing interpersonal skills, team participation skills, and technical report writing skills. Students who have completed or are enrolled in CIS 43 or CS 43 may not receive credit. Strongly Recommended ENG 1A - Critical Reading and Composition with a minimum grade of C or ENG 1AEX - Critical Reading and Composition Expanded with a minimum grade of C. 54 hours lecture. AA/AS GE: IB. Transfer : CSU.

Degree Applicable, Credit Grading Option: OP

**CNT 51 COMPTIA'S A+ CERTIFICATION 4 UNITS
COMPUTER TECHNICIAN**

This course provides an introduction to the computer hardware and software skills needed to help meet the industry demand for entry-level PC Technicians. This course covers PC hardware, software, security, networking, laptops, printers, operational procedures, operating systems, security, troubleshooting, and mobile devices. The students will study the topics needed to become certified PC technicians. Preparation for the CompTIA A+ certification, which verifies knowledge equivalent to that of an entry-level ICT (Information and Communications Technology) technician with about 12 months of hands-on experience. The responsibilities of an ICT professional will be introduced. Strongly Recommended: CIS 50 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Transfer: CSU; C-ID# ITIS 110.

Degree Applicable, Credit Grading Option: OP

CNT 52 NETWORKING FUNDAMENTALS 3 UNITS

This course provides an introduction to computer networking fundamentals skills needed to meet the industry demand for entry-level Network Technicians. Topics include: Ethernet network fundamentals, Local Area Networks (LANs), and Wide Area Networks (WAN) technologies, the Open Systems Interconnection (OSI) model, wiring implementations, network adapters and connectivity devices, IPv4/IPv6 addressing, Voice over IP (VoIP), and wireless standards. Tools to help prevent cyber attacks with IDS (Intrusion Detection Systems), authentication, and encryption are demonstrated. Student labs include: configuration of a SOHO (Small Office/Home Office), a firewall, a virtual private network (VPN), a switch, and a router and documenting a networking using professional drawing software. The responsibilities of an ICT (Information and Communications Technology) professional will be introduced. This course prepares students for the CompTIA Network+ Certification Exam. This professional certification verifies the student has the knowledge equivalent to that of an ICT technician with about 12 months of hands-on experience. Students who have completed or are enrolled in CIS 66 may not receive credit. Strongly Recommended: CIS 50 with a minimum grade of C. 54 hours lecture, 18 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**CNT 55 MCSA I WINDOWS SERVER 3 UNITS
INSTALLATION, STORAGE, AND COMPUTE**

This course prepares students for the Microsoft's Examination: Installation, Storage and Compute with Windows Server, which is the first of three exams a student must pass to obtain a MCSA (Microsoft Certified Solutions Associate) Certification. By passing this exam, one become a Microsoft Certified Professional (MCP) and gains access to MCP benefits. The MCSA Windows Server certification qualifies its holder for a position as a network or computer systems administrator or as a computer network specialist. The topics include installation, storage, and compute features and functionality available in the current Windows Server, Nano Server, images for deployment, storage solutions, data deduplication, high availability, disaster recovery, storage spaces direct, and failover clustering solutions. Also covered: Hyper-V and containers. Strongly Recommended: CNT 52 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**CNT 56 MCSA II NETWORKING WITH 3 UNITS
WINDOWS SERVER**

This course prepares students for the Microsoft's Examination: Networking with Windows Server, which is the second of three exams a student must pass to obtain a MCSA (Microsoft Certified Solutions Associate) Certification. By passing this exam, one become a Microsoft Certified Professional (MCP) and gains access to MCP benefits. Through many hands-on labs, students will install and configure DNS, DHCP, IPAM, VPN and RADIUS. Also covered: managing DFS and branch cache solutions, and implementing Software Defined Networking (SDN) solutions such as Hyper-V Network Virtualization (HNV) and Network Controller, Implement Network Connectivity and Remote Access Solutions, Implement

Core and Distributed Network Solutions. Strongly Recommended: CNT 55 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 57 MCSA III IDENTITY WITH WINDOWS SERVER 3 UNITS

This course prepares students for the Microsoft's Examination: Identity with Windows Server, which is the second of three exams a student must pass to obtain a MCSA (Microsoft Certified Solutions Associate) Certification. By passing this exam, one become a Microsoft Certified Professional (MCP) and gains access to MCP benefits. In this course, students manage identities, install, configure, manage, and maintain Active Directory Domain Services (AD DS) as well as implement Group Policy Objects (GPOs). Students also install and manage Active Directory Certificate Services (AD CS), Active Directory Federations Services (AD FS), Active Directory Rights Management Services (AD RMS), and Web Application proxy. Strongly Recommended: CNT 56 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 68 DIGITAL FORENSICS FUNDAMENTALS 3 UNITS

A practical course in Digital Forensics; the detection, and investigation of incidents involving computers, networks, the Internet, and digital information. Case oriented, following the objectives for the CFE Computer Forensics Examiner certification exam and the International Association of Computer Investigative Specialists (IACIS), the class includes understanding and practice in basic computer forensics, methods of investigation, analysis of storage media, logs, and tracking persons and data, using court-approved evidence collection tools. Also covered, computer forensics as a profession; the computer investigation process, and technical writing. Strongly Recommended: CIS 66 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 69 NETWORK SECURITY; COMPTIA SECURITY+ CERTIFICATION 3 UNITS

The CompTIA Security+ exam will certify the successful candidate has the knowledge and skills required to install and configure systems to secure applications, networks, and devices; perform threat analysis and respond with appropriate mitigation techniques; participate in risk mitigation activities; and operate with an awareness of applicable policies, laws, and regulations. The successful candidate will perform these tasks to support the principles of confidentiality, integrity, and availability. This course provides an introduction to the concepts and practices of secure network design and management using desktop and network operating systems, router and switch operating systems, hardware and software Firewall and VPN technology for wired and wireless systems. The program includes authentication methods and devices, protocol analysis and IP network troubleshooting, strategies for identifying and countering vulnerabilities, network media and topologies in a secure network, intrusion detection and forensic incident response. CompTIA Security+ meets the ISO 17024 standard and is approved by U.S. Department of Defense. Security+ is also compliant with government regulations under the

Federal Information Security Management Act (FISMA). Strongly Recommended: CNT 51 with a minimum grade of C, CNT 52 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU; C-ID# ITIS 160.

Degree Applicable, Credit Grading Option: OP

CNT 7285 CLOUD INFRASTRUCTURE: 3 UNITS COMPTIA CLOUD+ CERTIFICATION

IT professionals need to understand the concepts and principles required to build cloud infrastructure. This course covers the objectives of the CompTIA Cloud+ and Dell/EMC Cloud Infrastructure and Services (CIS) certification exams. Topics include: Cloud Computing Concepts; Models; Disk Storage Systems; Storage Networking; Network Infrastructure; Virtualization Components; Virtualization and the Cloud; Network Management; Performance Tuning; Systems Management; Security in the Cloud and Best Practices; Business Continuity and Disaster Recovery; Testing; Automation; and Changes. The EMC cloud computing reference model includes five fundamental layers (physical, virtual, control, orchestration, and service) and three cross-layer functions (business continuity, security, and service management). Technologies, components, processes, and mechanisms for each layer and cross-layer function will be covered. The course follows the U.S. National Institute of Standards and Technology as a guide for all definitions of cloud computing. Upon completing this course, participants will have the knowledge to make informed decisions on technologies, processes, and mechanisms required to build cloud infrastructure. CompTIA certification is normally valid for three years. Strongly Recommended: CNT 8001 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 7401 RED HAT LINUX ADMINISTRATION I 3 UNITS

This course provides hands-on training covering basic installation, management, configuration, documentation and hardware topics for the Linux/UNIX operating system on workstations in a network environment. The course includes comprehensive coverage of topics related to Linux distributions, installation, administration, X-Windows, and networking. Students who have completed or are enrolled in CS 41 may not receive credit. Strongly Recommended: CIS 50 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 7402 RED HAT LINUX ADMINISTRATION II 3 UNITS

This course focuses on the key tasks needed to become a full time Linux Administrator and to validate those skills via the Red Hat Certified System Administrator exam. This course goes deeper into Enterprise Linux administration including filesystems and partitioning, logical volumes, SELinux, fire-walling, BASH script development and troubleshooting. Students who have completed or are enrolled in CS 3 may not receive credit. 2.50 Units Lecture 0.50 Units Lab Strongly Recommended CNT 7401 - Introduction to Linux/LPI Linux+ Certification with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 7501 ETHICAL HACKING 3 UNITS

This course introduces the network security specialist to the various methodologies for attacking a network. Students will be introduced to the concepts, principles, and techniques, supplemented by hands-on exercises, for attacking and disabling a network. These methodologies are presented within the context of properly securing the network. The course will emphasize network attack methodologies with the emphasis on student use of network attack techniques and tools and appropriate defenses and countermeasures. Students will receive course content information through a variety of methods: lecture and demonstration of hacking tools will be used in addition to a virtual environment. Students will receive a hands-on practical approach in penetration testing measures and ethical hacking. Strongly Recommended: CNT 52 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 7701 IT VIRTUALIZATION, DATA CENTERS, VMWARE CERTIFICATION 3 UNITS

With VMware, students learn about virtualization, SDNs (Software Defined Networks), data center management, and remote operation of IT infrastructures in the Cloud. Increasingly, businesses are moving their IT services to data centers, and skilled VMware professionals are and will be in high demand for the foreseeable future. vSphere - the major VMware platform - includes features for configuration, backup, cloning, resizing, securing, and moving virtual machines. Upon completion of this course, students will have covered the topics required for taking the examination for the VMware Certified Professional (VCP). This hands-on training course will have students install, configure, and manage different VMware virtualization products. VMware certification is normally valid for two years. Strongly Recommended: CNT 8001 with a minimum grade of C, CNT 51 with a minimum grade of C, CNT 52 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 8001 CISCO CCNA1/3 INTRODUCTION TO NETWORKS (ITN) 3 UNITS

This is course 1 of 3 of the Cisco CCNA Routing and Switching Certification Objectives. The concepts covered in this course include advances in modern network technologies; Protocols and Models: how network protocols enable devices to access local and remote network resources; Physical Layer: how physical layer protocols, services, and network media support communications across networks; Data Link Layer: how media access control in the data link layer supports communication across networks; Ethernet Switching: how Ethernet operates in a switched network; Network Layer: how routers use network layer protocols and services to enable end-to-end connectivity; Address Resolution: Protocol (ARP) and Neighbor Discovery (ND) enable communication on a local area network; Transport Layer & Application Layer: Explain the operation of layers protocols in providing support to end-user applications. The hands-on labs include implementation of initial settings including passwords, IP addressing, and default gateway parameters on a network switch and end devices; Basic Switch and Device Configuration; Calculation of numbers between decimal and binary systems; IPv4 Addressing;

IPv4 subnetting scheme to segment a network; Implementing an IPv6 addressing scheme; ICMP and various tools to test network connectivity; Network Security Fundamentals: Configure switches and routers with device hardening features to enhance security; Build a Small Network: Implement a network design for a small network to include a router, a switch, and end devices. Strongly Recommended: CIS 50 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 8002 CISCO CCNA2/3 SWITCHING, ROUTING, AND WIRELESS ESSENTIALS (SRWE) 3 UNITS

This is course 2 of 3 of the Cisco CCNA Routing and Switching Certification Objectives. The concepts covered in this course include Switching: how Layer 2 switches forward data; how STP enables redundancy in a Layer 2 network; the operation of dynamic address allocation in IPv6 networks by using SLAAC and DHCPv6; how FHRPs provide default gateway services in a redundant network; how vulnerabilities compromise LAN security; how Wireless LANs enable network connectivity; how routers use information in packets to make forwarding decisions; and troubleshooting static and default route configurations. The hands-on labs include Basic Configuration of devices by using security best practices; Implementing VLANs and trunking in a switched network; Troubleshooting inter-VLAN routing on Layer 3 devices; Troubleshooting EtherChannel on switched links; Implementing DHCPv4 to operate across multiple LANs; Configuring switch security to mitigate LAN attacks; Implementing a WLAN using a wireless router and WLC; configuring and troubleshooting IPv4 and IPv6 floating static routes. Strongly Recommended: CNT 8001 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 8003 CISCO CCNA3/3 ENTERPRISE NETWORKING, SECURITY, AND AUTOMATION V7.0 (ENSA) 3 UNITS

This is course 3 of 3 of the Cisco CCNA Routing and Switching Certification Objectives. The concepts covered in this course include the operation of single-area OSPFv2 in both point-to-point and broadcast multi-access networks; vulnerabilities, threats, and exploits and how they can be mitigated to enhance network security; ACLs operation as part of a network security policy; WAN access technologies used to satisfy business requirements; VPNs and IPsec and their use to secure site-to-site and remote access connectivity; networking devices implementing QoS; Network Design and characteristics of scalable network architectures; network automation enabled through RESTful APIs and configuration management tools; purpose and characteristics of network virtualization. The hands-on labs include the implementation of single-area OSPFv2 in both point-to-point and broadcast multi-access networks; IPv4 ACLs to filter traffic and secure administrative access; NAT services on the edge router to provide IPv4 address scalability; network management protocols to monitor the network; and Troubleshooting LANs and enterprise networks. Strongly Recommended: CNT 8002 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

COMPUTER SCIENCE

Las Positas College offers Degrees and Certificate programs in Computer Science that prepare students for direct job entry and/or preparation for transfer to a four-year university.

These programs cover a wide range of computer related professions that include programming, systems analysis, data processing, computer research and data management. Students will learn to direct computer operations by writing detailed instructions in computer languages to solve a variety of problems in business, government, and science. These include information acquisition, processing storage, and transmission, using computers and computer peripherals.

Principal areas of study within computer science include computer systems and networks; database systems; human factors; numerical analysis; programming languages; software engineering and theory of computing.

Programs of Study

Degrees:

- AS – Computer Science

Certificates of Achievement:

- Artificial Intelligence
- Computer Programming
- Computer Programming for the Web
- Management Information Systems
- Red Hat Administration

Career Opportunities

Include but are not limited to: Programmer, Programmer/Analyst, Business Analyst, Systems Analyst, Computer Scientist, Information Technologist, Information Systems Professional, Information Technology Professional, Programming Professional, Software Developer, or Software Engineer.

AS – Computer Science

About the Degree

The Las Positas Computer Science department offers course that lead to an Associate of Science in Computer Science degree designed to prepare students to transfer into a baccalaureate program in Computer Science or a related field. These programs cover a wide range of computer related professions that include programming, systems analysis, data processing, database analysis and computer science. As technologies in computer science change, so will the content of this degree to assure graduates have what they need to be successful in both the current and future market places.

Career Opportunities

Computer Software Programmer Computer Software Tester Systems Analyst Software designer Mobile Application Developer Database designer, administrator and programmer.

Program Outcomes

- Upon completion of the AS in Computer Science, students are able to analyze, design, and solve complex computer-based problems using both logical and mathematical methods including the implementation of control and data structures.
- Upon completion of the AS in Computer Science, students are able to direct computer operations by writing detailed instructions in computer languages to solve a variety of problems.
- Upon completion of the AS in Computer Science, students are able to professionally describe and apply their skills in the design of their complex computer system or algorithm and be able to show how their solution is the most optimal.

Required Core: (30 Units)

CS 1 (Computing Fundamentals I)	4
CS 2 (Computing Fundamentals II)	4
CS 17 (Discrete Mathematical Structures) or MATH 10 (Discrete Mathematical Structures)	4
CS 20 (Advanced Programming with Data Structures/C++)	4
CS 21 (Computer Organization and Assembly Language Programming)	4
MATH 1 (Calculus I)	5
MATH 2 (Calculus II)	5

List A: Select One (3.5-5 Units)

MATH 7 (Elementary Linear Algebra)	3.5
PHYS 1B (General Physics II)	5

Program-Based GE[^]: Select One (5 Units)

CHEM 1A (General College Chemistry I)	5
PHYS 1A (General Physics I)	5

Total Units for the Major 33.5-35

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Artificial Intelligence

About the Certificate

The Las Positas Computer Science program offers courses that lead to a Certificate of Achievement in Artificial Intelligence. The certificate prepares students for direct job entry into areas such as artificial intelligence programming, machine learning engineering, and business intelligence development. This certificate also prepares students with the theoretical knowledge of artificial intelligence to ensure quick adaptation to emerging artificial intelligence technologies.

Career Opportunities

Artificial intelligence programmer, machine learning engineer, data scientist, and business intelligence developer.

Program Outcomes

- Upon completion of the Certificate of Achievement in Artificial Intelligence, students will be able to analyze a problem, determine which artificial intelligence algorithms are viable and develop an appropriate solution.
- Upon completion of the Certificate of Achievement in Artificial Intelligence, students will be able to use existing artificial intelligence and machine learning programming libraries on a data set to create a valid model that justifies their design decisions.

Required Core: (21 Units)

CS 1 (Computing Fundamentals I)	4
CS 2 (Computing Fundamentals II).....	4
CS 4 (Introduction to Artificial Intelligence)	3
CS 5 (Introduction to Machine Learning)	3
CS 7 (Introduction to Computer Programming Concepts)	3
MATH 40 (Statistics and Probability)	4

Total Units 21

Certificate of Achievement Computer Programming

About the Certificate

The Las Positas Computer Science program offers courses that lead to a Certificate of Achievement in Computer Programming. The certificate prepares students for direct job entry into areas such as computer programming in multiple languages, software testing, and mobile application development. This program will also prepare students for the challenges of the every changing computer industry and help them prepare for the workforce.

Career Opportunities

Computer Programmer (C, C++, Java, Assembly Language), System/Unit/Integration Software Tester, Game Programming Intern,

Software Information Developer.

Program Outcomes

- Upon completion of the Certificate of Achievement in Computer Programming, students are able to professionally demonstrate the application of their skills in the development and testing of their solution to solve a specific computing project.
- Upon completion of the Certificate of Achievement in Computer Programming, students are able to professionally describe and apply their skills in the design of their solutions as well as alternative technologies or solutions to solve their specific computing project.

Required Core: (17 Units)

CS 1 (Computing Fundamentals I)	4
CS 2 (Computing Fundamentals II).....	4
CS 43 (Professional Communications) or CIS 43 (Professional Communications) or CNT 43 (Professional Communications)	3
CS 47 (Capstone Project).....	3
CIS 60 (Systems Analysis and Design)	3

List A: Select Three (10-12 Units)

CS 16 (Mobile Application Development - iPhone)	3
CS 18 (Mobile Application Development - Android)	3
CS 20 (Advanced Programming with Data Structures/C++)	4
CS 21 (Computer Organization and Assembly Language Programming)	4
CS 31 (Java Programming).....	4
CS 45 (Database Programming).....	4

Total Units 27-29

Certificate of Achievement Computer Programming for the Web

About the Certificate

The Las Positas Computer Science and Computer Information Systems programs offers courses that lead to a Certificate of Achievement in Computer Programming for the Web. The certificate prepares students for direct job entry into areas such as Web development, Mobile application development, Systems Analysis of Web solutions, SQL/PHP programming and database programming for the Web. This program will even prepare students for many of the changes in internet programming technologies as they emerge assuring a well prepared graduate for the market place.

Career Opportunities

Static and Dynamic Web Page Developer, PHP Developer for the web, Web based database developer.

Program Outcomes

- Upon completion of the Certificate of Achievement in Computer Programming for the Web, students are able to direct computer operations by writing detailed instructions in computer languages.

- Upon completion of the Certificate of Achievement in Computer Programming for the Web, students are able to implement interactive web pages using high level programming language instructions to implement specific information internet-based solutions.
- Upon completion of the Certificate of Achievement in Computer Programming for the Web, students are able to professionally demonstrate the application of their web development skills in the development of their solution to solve a specific internet-based computer project.

Required Core:(18 Units)

CIS 60 (Systems Analysis and Design)	3
CIS 59 (Web Dev: HTML/CSS/Javascript)	3
CIS 92 (Web: PHP Programming, MySQL)	3
CS 7 (Introduction to Computer Programming Concepts)	3
CS 43 (Professional Communications)	3
CS 47 (Capstone Project)	3

List A: Select Three (9-11 Units)

CIS 59C (Web Programming - JavaScript)	3
CS 16 (Mobile Application Development - iPhone)	3
CS 18 (Mobile Application Development - Android)	3
CS 31 (Java Programming)	4
CS 45 (Database Programming)	4

Total Units 27-29

Certificate of Achievement Management Information Systems

About the Certificate

The Las Positas Computer Science and Computer Information Systems programs offers courses that lead to a Certificate of Achievement in Management Information Systems. The certificate prepares students for direct job entry into areas such as Financial application development, E-Commerce application development, Database development and project management.

Career Opportunities

Financial programmer, Business systems programmer, E-Commerce programmer, Database designer/programmer

Program Outcomes

- Upon completion of this program, students will be able to apply their programming skills to solve business related problems in support of both small and medium businesses.

Required Core:(18 Units)

CIS 60 (Systems Analysis and Design)	3
CIS 59 (Web Dev: HTML/CSS/Javascript)	3
CIS 92 (Web: PHP Programming, MySQL)	3
CS 7 (Introduction to Computer Programming Concepts)	3
CS 43 (Professional Communications)	3
CS 47 (Capstone Project)	3

List A: Select Three (9-11 Units)

CIS 59C (Web Programming - JavaScript)	3
CS 16 (Mobile Application Development - iPhone)	3
CS 18 (Mobile Application Development - Android)	3
CS 31 (Java Programming)	4
CS 45 (Database Programming)	4

Total Units 27-29

Certificate of Achievement Red Hat Administration

About the Certificate

The Las Positas Computer Science program offers courses that lead to a Certificate of Achievement in Red Hat Linux Administration. The certificate will endow the student with the skills and understanding allowing them to become effective Linux operating system administrators able to manage storage, users, services and processes running on any computer using the Red Hat Linux operating system.

Career Opportunities

Server Administrator IT Support Specialist Red Hat Linux Administrator/Specialist

Program Outcomes

- Upon completion of this program, students will be able to administrate users, security policies and processes on a Red Hat Linux server.
- Upon completion of this program, students will be able to administrate file systems, fire walls and task automation with BASH scripts on a Red Hat Linux server.

Required Core: (22 Units)

CNT 51 (CompTIA's A+ Certification Computer Technician)	4
CNT 52 (Networking Fundamentals) or CIS 66 (Networking Fundamentals)	3
CNT 69 (Network Security; CompTIA Security+ Certification)	3
CS 7 (Introduction to Computer Programming Concepts)	3
CS 41 (Red Hat Linux Administration I) or CNT 7401 (Red Hat Linux Administration I)	3
CS 3 (Red Hat Linux Administration II) or CNT 7402 (Red Hat Linux Administration II)	3
CIS 43 (Professional Communications) or CNT 43 (Professional Communications) or CS 43 (Professional Communications)	3

Total Units 22

Computer Science Courses (CS)

CS 1	COMPUTING FUNDAMENTALS I	4 UNITS
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Introduction to programming and problem-solving using C++. Problem solving techniques and algorithms; program design, development, style, testing and debugging. C++ syntax covered

includes: variables; data types; operators and expressions; control structures; library and user-defined functions; basic file input/output; binary file input/output; arrays; vectors; abstract data types including user-defined data structures and enumerated data types. Strongly Recommended: MATH 107 with a minimum grade of C, CS 7 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. AA/AS GE: IB. Transfer: CSU, UC; C-ID# COMP 122.

Degree Applicable, Credit Grading Option: OP

CS 2 COMPUTING FUNDAMENTALS II 4 UNITS

Application of software engineering techniques to the design and development of large programs. Object-oriented programming methods and problem-solving strategies applied to intermediate-level problems using C++. Includes pointers and dynamic allocation; classes; encapsulation; inheritance and polymorphism; object and function overloading; recursive algorithms; data abstraction and structures. Prerequisite: CS 1 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Transfer: CSU, UC; C-ID# COMP 132.

Degree Applicable, Credit Grading Option: OP

CS 3 RED HAT LINUX ADMINISTRATION II 3 UNITS

This course focuses on the key tasks needed to become a full time Linux Administrator and to validate those skills via the Red Hat Certified System Administrator exam. This course goes deeper into Enterprise Linux administration including filesystems and partitioning, logical volumes, SELinux, fire-walling, BASH script development and troubleshooting. Students who have completed or are enrolled in CNT 7402 may not receive credit. Strongly Recommended: CS 41 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CS 4 INTRODUCTION TO ARTIFICIAL INTELLIGENCE 3 UNITS

An introduction to artificial intelligence (AI) and modern AI programming libraries. Basic discrete mathematics. Problem solving using uninformed, informed, local, and adversarial search algorithms. Knowledge representation, inference, and reasoning using propositional and first-order logic. Quantifying and reasoning about uncertainty with Bayesian networks and Markov decision processes. Ethical considerations of AI. Prerequisite: CS 7 with a minimum grade of C, MATH 40 with a minimum grade of C, CS 1 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CS 5 INTRODUCTION TO MACHINE LEARNING 3 UNITS

An introduction to machine learning (ML), with an emphasis on programming ML applications and using modern ML libraries. Basic discrete mathematics and linear algebra. An overview of various supervised learning classifiers. Unsupervised learning via clustering. Reinforcement learning with model-based and model-free approaches. Safety and ethical concerns of ML. 2.50 Units Lecture 0.50 Units Lab. Prerequisite: CS 7 - Introduction to Computer

Programming Concepts with a minimum grade of C MATH 40 with a minimum grade of C; CS 1 with a minimum grade of C. 45 hours lecture, 27 hours laboratory Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CS 7 INTRODUCTION TO COMPUTER PROGRAMMING CONCEPTS 3 UNITS

An introductory course in computer programming concepts and fundamental coding skills using object-oriented languages like Python. Material includes problem-solving techniques, design of algorithms, and common programming constructs such as variables, expression, input/output, decision-making, loops, and arrays. 45 hours lecture, 27 hours laboratory. Transfer: CSU, UC; C-ID# COMP 112.

Degree Applicable, Credit Grading Option: OP

CS 16 MOBILE APPLICATION DEVELOPMENT - IPHONE 3 UNITS

Object-oriented programming in Swift for the iPhone, iPad and related platforms at a beginning to intermediate level. Introduction to the iOS mobile platform. Introduction to Swift syntax and concepts and the iOS application programming interface (API), including: classes, objects, inheritance, protocols, optionals, arrays, dictionaries, and closures; creating user interfaces; using graphics and audio; responding to touch-based user interaction. Strongly Recommended: CS 1 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CS 17 DISCRETE MATHEMATICAL STRUCTURES 4 UNITS

Designed for majors in mathematics and computer science, this course provides an introduction to discrete mathematical structures used in Computer Science and their applications. Course content includes: Propositional and predicate logic; rules of inference; quantifiers; elements of integer number theory; set theory; methods of proof; induction; combinatorics and discrete probability; functions and relations; recursive definitions and recurrence relations; elements of graph theory and trees. Applications include: analysis of algorithms, Boolean algebras and digital logic circuits. Students who have completed, or are enrolled in, MATH 10 may not receive credit. Prerequisites: MATH 1 with a minimum grade of C (may be taken concurrently), CS 1 with a minimum grade of C (may be taken concurrently). 72 hours lecture, 18 hours laboratory. AA/AS GE: IB, MP. Transfer: CSU, UC; CSU GE: B4; IGETC: 2A; C-ID# COMP 152.

Degree Applicable, Credit Grading Option: GR

CS 18 MOBILE APPLICATION DEVELOPMENT - ANDROID 3 UNITS

This programming course is intended for those students who already have completed an introductory programming course and presents a comprehensive study of concepts and skills in Android programming and helps students develop applications for mobile devices. Students will use a software emulator to develop applications and a real mobile device to demonstrate applications. The focus is on Computer Science

concepts needed to develop, debug, and test a variation of existing applications. Strongly Recommended: CS 31 with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CS 20 ADVANCED PROGRAMMING WITH DATA STRUCTURES/C++ 4 UNITS

Design and implementation of complex programs in C++ using a variety of fundamental data structures and algorithms. Includes the design and implementation of recursive functions, abstract data types, linked lists, stacks, queues, binary trees, hash tables, induction, searching and sorting algorithms, graphs, heaps and algorithm analysis. Strongly Recommended: CS 2 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

CS 21 COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE PROGRAMMING 4 UNITS

Basics of machine architecture, cpu architecture and design, machine language, assembly language, operating system and higher level language interface. Data representation, instruction representation and execution, addressing techniques and use of macros. Space and time efficiency issues. Input/output including video modes. Procedures including parameter passing and linkage to higher level languages. Prerequisite: CS 1 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Transfer: CSU, UC; C-ID# COMP 142.

Degree Applicable, Credit Grading Option: OP

CS 31 JAVA PROGRAMMING 4 UNITS

Applications programming in Java for students already familiar with the concepts of programming. Topics will include in Applets, GUI programming, and design using Swing, presenting data files over the web, elementary data structures (queues, linked list, stacks) and vectors, searching (linear, binary), sorting algorithms, Database programming using JDBC (Java Data Base Connectivity), Remote Method Invocation (RMI), and Java Beans. The student will also be exposed to and experience developing Java applications and applets in the Linux/Unix environment(s). Strongly Recommended: CS 1 with a minimum grade of C, CS 7 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

CS 41 RED HAT LINUX ADMINISTRATION I 3 UNITS

This course provides hands-on training covering basic installation, management, configuration, documentation and hardware topics for the Linux/UNIX operating system on workstations in a network environment. The course includes comprehensive coverage of topics related to Linux distributions, installation, administration, X-Windows, and networking. Students who have completed or are enrolled in CNT 7401 may not receive credit. Strongly Recommended: CIS 50 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CS 43 PROFESSIONAL 3 UNITS

COMMUNICATIONS

This course applies the principles of ethical and effective communication to the creation of letters, memos, emails, and written and oral reports for a variety of business situations. The course emphasizes critical thinking and analysis, planning, organizing, composing, and revising business documents to create and deliver professional-level oral presentations in-person and virtually. Additional focus will be placed on developing interpersonal skills, team participation skills, and technical report writing skills. Students who have completed or are enrolled in CIS 43 or CNT 43 may not receive credit. Strongly Recommended: ENG 1A - Critical Reading and Composition with a minimum grade of C or ENG 1AEX - Critical Reading and Composition Expanded with a minimum grade of C. 54 hours lecture. AA/AS GE: IB. Transfer : CSU.

Degree Applicable, Credit Grading Option: OP

CS 45 DATABASE PROGRAMMING 4 UNITS

This is a programming course that goes beyond mere "desktop" database management. Participants will learn how to design and manage cloud based databases and explore dynamic applications that interact with databases using compiled and interpreted client/server programming languages. Learn databases concepts, relational database principles, database design/modeling techniques and Structured Query Language (SQL). Prerequisite: CS 1 with a minimum grade of C or CS 7 with a minimum grade of C or CS 31 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

CS 47 CAPSTONE PROJECT 3 UNITS

This is intended as a culminating experience within a degree or certificate sequence. Working individually or in a small team, you will develop a large-scale work-like project, driven by client needs, and requiring planning, implementation, documentation and presentation of the solution. Based on client requirements, each student or student team will design and implement a solution in a systematic and organized manner, breaking the project into logical sub-components and/or steps. Each student or student team will also prepare relevant written materials and give an oral presentation of the final product. Strongly Recommended: CS 1 with a minimum grade of C or CS 31 with a minimum grade of C, CNT 52 with a minimum grade of C, CIS 43 with a minimum grade of C or CNT 43 with a minimum grade of C or CS 43 with a minimum grade of C, CIS 60 with a minimum grade of C, CIS 62 with a minimum grade of C, CS 45 with a minimum grade of C. 18 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

DANCE

Dance classes at Las Positas are offered in a state-of-the-art dance studio. From Introduction to Dance, Ballet, Modern/Contemporary Jazz and Dance Composition, Las Positas Dance offers learning opportunities for the novice and experienced dancer alike. The dance program offers a highly popular class in Dance Production/Choreography which gives students the opportunity to experience being a performer, choreographer, costume and program designer. The class culminates in a full-length concert at the end of the semester. Dance performances are enthusiastically supported by the College and local communities.

Dance Courses (DANC)

DANC 1 INTRODUCTION TO DANCE 1 UNIT

Introduction to the dance technique specific to ballet, modern and jazz dance. Similarities and differences found in each dance form will be explored. The history of ballet, modern and jazz dance will be examined. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

DANC 2A JAZZ DANCE FUNDAMENTALS/ BEGINNING 1 UNIT

This course covers various movement forms with an emphasis on rhythm, style and proper techniques. Students will learn a variety of jazz phrases and will be expected to perform a jazz dance at the introductory level by the end of the semester. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

DANC 2B JAZZ DANCE BEGINNING/ INTERMEDIATE 1 UNIT

This course covers various movement forms with an emphasis on rhythm, style and proper techniques. Students will learn a variety of jazz phrases and will be expected to choreograph and perform a jazz dance at the advanced beginning/intermediate level by the end of the semester. Strongly Recommended: DANC 2A with a minimum grade of C. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

DANC 3A BALLET FUNDAMENTALS/ BEGINNING 1 UNIT

Introduction to the fundamentals of ballet, including barre, center and across the floor technique. Proper body connectivity, alignment, strength and flexibility will be emphasized. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

DANC 4A MODERN/CONTEMPORARY DANCE A 1 UNIT

Beginning level instruction in the Contemporary Modern Dance technique. Emphasis on proper body alignment and body

connectivity will be addressed. Students will be introduced to the elements of dance and transfer these elements into their technical practice. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

DANC 4B MODERN/CONTEMPORARY DANCE B 1 UNIT

Elementary to Intermediate level instruction in the Contemporary Modern Dance technique. Continued emphasis on proper body alignment and body connectivity will be addressed. Students will be expected to incorporate the elements of dance into their technical practice. Strongly Recommended: DANC 4A with a minimum grade of C. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

DANC 5A DANCE COMPOSITION 5A 1.5 UNITS

An introduction to the art of making dances for choreographers working in any style of dance, this course is open to students who have little or no dance training. 81 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

DANC 5B DANCE COMPOSITION 5B 1.5 UNITS

A continuation to the art of making dances for choreographers working in any style of dance. 81 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

DANC 6A CHOREOGRAPHY FOR THE STAGE A 2 UNITS

Exploration of choreographic principles along with stage presentation leading to a full-length concert. Participation in dance works either as a choreographer or performer. Minimal participation in technical and business aspects of production. Strongly Recommended: DANC 5A with a minimum grade of C or DANC 5B with a minimum grade of C. 108 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

DANC 6B CHOREOGRAPHY FOR THE STAGE B 2 UNITS

Choreograph dance works specifically for a full length stage production. Involved participation in the technical, creative and business aspects of stage production. Strongly Recommended: DANC 5A with a minimum grade of C or DANC 5B with a minimum grade of C. 108 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

DANC 29 INDEPENDENT STUDY, DANCE 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

EARLY CARE AND EDUCATION

The Early Care and Education Program is designed to educate students in principles of child growth and development, preparing engaging, developmentally and culturally appropriate curriculum and environments, and experience with applying these principles into direct work with children and their families. The program reflects the current and projected needs of the early childhood profession. Courses are designed to satisfy CA Department of Social Services licensing regulations and the Commission on Teacher Credentialing for work permits. Educating and caring for young children requires study, personal and professional integrity, self-reflection and critical thinking. This program prepares students to: apply theories of child development and educational pedagogy with children birth to eight, create enriching educational environments and curriculum, utilize child-centered, emergent and developmentally appropriate approaches to learning, make meaningful connections with families, support children's understanding of diversity and inclusion, and support children's social-emotional well-being.

Programs of Study

Degrees:

- AA-T – Child and Adolescent Development
- AS-T – Early Childhood Education
- AA – Early Childhood Development
- AA – Early Childhood Intervention

Certificates of Achievement:

- Associate Teacher
- Early Childhood Development
- Early Childhood Intervention Assistant

Career Opportunities

Students have opportunities to work within the following professions: early childhood and afterschool programs, transitional kindergarten and first to third grades, special education, early intervention and early childhood mental health and social and community agencies or advocacy programs.

AA-T – Child and Adolescent Development

About the Degree

The Associate in Arts in Child and Adolescent Development for Transfer is designed for prospective California State University (CSU) transfer students who are preparing for careers in the fields of Child and Adolescent Development, Human Development and Early

Childhood Education, to name a few. Completion of the Child and Adolescent Development Transfer degree will provide a streamlined pathway for transfer to a CSU campus with a Child and Adolescent Development or similar major. Students should consult with a counselor to determine whether or not this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution; please see a counselor for details if you are pursuing transfer to the UC system.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AA-T in Child and Adolescent Development, students are able to synthesize child and adolescent development research and theories.
- Upon completion of the AA-T in Child and Adolescent Development, students are able to apply principles of child and adolescent development considering children's varying characteristics, needs and the multiple interacting influences on children's development.
- Upon completion of the AA-T in Child and Adolescent Development, students are able to apply ethical standards of behavior accepted by the education profession using ongoing reflection to guide practices.
- Upon completion of the AA-T in Child and Adolescent Development, students are able to compare and contrast diverse cultural values to develop respectful and reciprocal relationships for the purpose of working effectively with children, families, co-workers and community.

Required Core (10 Units)

ECE 56 (Child Growth and Development)	3
MATH 40 (Statistics and Probability)	4
PSYC 1 (General Psychology).....	3

List A: Select Three (9-10 Units)

ANTR 3 (Cultural Anthropology) or	
ECE 62 (Child, Family and Community) or	
SOC 1 (Principles of Sociology) or	
SOC 3 (Introduction to Race and Ethnicity) or	
ETHS 6 (Introduction to Race and Ethnicity) or	
SOC 4 (Marriage and Family Relations)	3

BIO 10 (Introduction to the Science of Biology) or BIO 30 (Introduction to College Biology) or BIO 50 (Anatomy and Physiology).....	4
ECE 50 (Early Childhood Principles and Practices).....	3
PSYC 12 (Life-Span Psychology).....	3

Total Units for the Major 19-20

Additional General Education and Elective Units40-41

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS-T – Early Childhood Education

About the Degree

The Associate in Science for Transfer in Early Childhood Education (ECE) degree provides a clearly articulated curricular track for students who wish to transfer to a CSU campus, while also serving the diverse needs of students interested in the breadth and depth of the field of early childhood education. Additionally, this degree exposes students to the core principles and practices of the field in order to build a foundation for their future personal, academic, or vocational paths.

The degree was designed to facilitate students' successful transfer to certain California State University (CSU) campuses that prepare them for advanced study in a variety of graduate programs, as well as a variety of careers such as teaching, Child Development Specialist, Program Directors, and Child Life Specialists. With a BA in ECE/Child Development, students are eligible for the Master Teacher and Site Supervisor levels of the CA Child Development Permit, using the Alternative Qualifications category.

The Associate in Science for Transfer in Early Childhood Education degree provides students with a major that fulfills the general requirements of the California State University for transfer. Students with this degree will receive priority admission with junior status to certain California State University campuses.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Career Opportunities

Preschool Teachers, Early Care and Education Teachers, Teachers, Program Directors, Child and Family Agencies, and Mental Health Professional

Program Outcomes

- Upon completion of the AS-T in Early Childhood Education, students are able to apply ethical standards of behavior accepted by the profession of early childhood education using ongoing self-reflection to guide practices.
- Upon completion of the AS-T in Early Childhood Education, students are able to assess children's development through observation, documentation, reflection and interpretation to guide curriculum and intentional teaching.
- Upon completion of the AS-T in Early Childhood Education, students are able to compare and contrast diverse cultural values, child rearing practices, attitudes towards play and education by developing respectful reciprocal relationships in order to work effectively with children, families, coworkers and community.
- Upon completion of the AS-T in Early Childhood Education, students are able to demonstrate practices that maintain standards of health, nutrition, and safety in early childhood settings.
- Upon completion of the AS-T in Early Childhood Education, students are able to intentionally design inclusive, culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.
- Upon completion of the AS-T in Early Childhood Education, students are able to synthesize child development research and theories; apply principles with consideration for children's varying characteristics, needs and the multiple interacting influences on children's development.
- Upon completion of the AS-T in Early Childhood Education, students are able to utilize observation and evaluation processes/ tools to apply and implement developmentally appropriate practices in an early care and education setting using knowledge, skills and professional dispositions that promote the development and learning of all young children.

Required Core: (26 Units)

ECE 50 (Early Childhood Principles and Practices).....	3
ECE 54 (Child Health, Safety, and Nutrition).....	3
ECE 56 (Child Growth and Development).....	3
ECE 62 (Child, Family and Community).....	3
ECE 63 (Early Childhood Curriculum).....	4
ECE 69 (Child Study: Observation and Assessment).....	3
ECE 79 (Teaching in a Diverse Society).....	3
ECE 90 (Practicum—Supervised Experience).....	4

Total Units for the Major 26

Additional General Education and Elective Units 34

Total Units 60

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AA – Early Childhood Development

About the Degree

The goals of the AA in Early Childhood Development degree are 1 - to prepare future teachers of children birth to five to provide developmentally appropriate care and education, through educationally sound, culturally engaging and family-centered practices; and 2 - to provide foundational child development and family engagement knowledge and experience to students who will pursue a Multi-Subject or Single Subject credential through a 4-year college or university. The Early Care and Education Program provides students with a fundamental understanding of the principles of child growth and development, as well as experience in the application of these principles.

Career Opportunities

Career opportunities include: Early childhood teacher Before and after school teacher.

Program Outcomes

- Upon completion of the AA in Early Childhood Development, students are able to apply ethical standards of behavior accepted by the profession of early childhood education using ongoing self-reflection to guide practices.
- Upon completion of the AA in Early Childhood Development, students are able to assess children’s development through observation, documentation, reflection and interpretation to guide curriculum and intentional teaching.
- Upon completion of the AA in Early Childhood Development, students are able to compare and contrast diverse cultural values, child rearing practices, attitudes towards play and education by developing respectful reciprocal relationships in order to work effectively with children, families, coworkers and community.
- Upon completion of the AA in Early Childhood Development, students are able to demonstrate practices that maintain standards of health, nutrition, and safety in early childhood settings.
- Upon completion of the AA in Early Childhood Development, students are able to identify the processes of and contributions to

systemic and internalized oppression and privilege. Utilize this information, along with personal reflection, to identify strategies to more effectively educate children in a pluralistic society.

- Upon completion of the AA in Early Childhood Development, students are able to intentionally design inclusive, culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.
- Upon completion of the AA in Early Childhood Development, students are able to synthesize child development research and theories; apply principles with consideration for children's varying characteristics, needs and the multiple interacting influences on children's development.
- Upon completion of the AA in Early Childhood Development, students are able to utilize observation and evaluation processes/ tools to apply and implement developmentally appropriate practices in an early care and education setting using knowledge, skills and professional dispositions that promote the development and learning of all young children.

Required Core: (31-33 Units)

ECE 50 (Early Childhood Principles and Practices).....	3
ECE 56 (Child Growth and Development).....	3
ECE 62 (Child, Family and Community).....	3
ECE 63 (Early Childhood Curriculum).....	4
ECE 54 (Child Health, Safety and Nutrition).....	3
ECE 60 (Introduction to the Young Child With Exceptional Needs)	3
ECE 69 (Child Study: Observation and Assessment).....	3
ECE 79 (Teaching in a Diverse Society).....	3
ECE 90 (Practicum-Supervised Experience).....	4
ECE 95 (Work Experience).....	1-3
ECE 96 (Work Experience Seminar).....	1

Total Units for the Major 31-33

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AA – Early Childhood Intervention

About the Degree

The goals of the AA in Early Childhood Intervention degree is designed to provide specialized knowledge and experience with supporting and educating children who have suspected or documented exceptional needs or disabilities. Future teachers

of children birth to five are prepared to provide inclusive and developmentally appropriate care and education, through educationally sound, culturally engaging and family-centered practices. This degree also provides foundational child development and family engagement knowledge and experience to students who will pursue a Multi-Subject or Single Subject credential through a 4-year college or university. The Early Care and Education Program provides students with a fundamental understanding of the principles of child growth and development, as well as experience in the application of these principles.

Career Opportunities

Early Childhood Teacher Special Education Instructional Assistant
Special Education Para-professional.

Program Outcomes

- Upon completion of the AA in Early Childhood Intervention, students are able to assess children’s development through observation, documentation, reflection and interpretation to guide curriculum and intentional teaching.
- Upon completion of the AA in Early Childhood Intervention, students are able to compare and contrast diverse cultural values, child rearing practices, attitudes towards play and education by developing respectful reciprocal relationships in order to work effectively with children, families, coworkers and community.
- Upon completion of the AA in Early Childhood Intervention, students are able to demonstrate practices that maintain standards of health, nutrition, and safety in early childhood settings.
- Upon completion of the AA in Early Childhood Intervention, students are able to identify the processes of and contributions to systemic and internalized oppression and privilege. Utilize this information, along with personal reflection, to identify strategies to more effectively educate children in a pluralistic society.
- Upon completion of the AA in Early Childhood Intervention, students are able to intentionally design inclusive, culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.
- Upon completion of the AA in Early Childhood Intervention, students are able to students will develop a personal ECE philosophy after reviewing ECE philosophies and program approaches.
- Upon completion of the AA in Early Childhood Intervention, students are able to synthesize child development research and theories; apply principles with consideration for children’s varying characteristics, needs and the multiple interacting influences on children’s development.
- Upon completion of the AA in Early Childhood Intervention, students are able to utilize observation and evaluation processes/ tools to apply and implement developmentally appropriate practices in an early care and education setting using knowledge, skills and professional dispositions that promote the development and learning of all young children.

Required Core: (38 Units)

ECE 40 (Social and Emotional Foundations for Early Learning)3
 ECE 50 (Early Childhood Principles and Practices).....3
 ECE 54 (Child Health, Safety and Nutrition).....3
 ECE 56 (Child Growth and Development) 3
 ECE 60 (Introduction to the Young Child With Exceptional Needs)3
 ECE 62 (Child, Family and Community)3
 ECE 63 (Early Childhood Curriculum)4
 ECE 67 (Infant and Toddler Development and Caregiving)3
 ECE 69 (Child Study: Observation and Assessment)3
 ECE 79 (Teaching in a Diverse Society)3
 ECE 90 (Practicum-Supervised Experience)4
 ECE 91 (Adaptive Curriculum For Children With
 Exceptional Needs).....3

Total Units for the Major 38

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

**Certificate of Achievement
Associate Teacher**

About the Certificate

This work-based certificate prepares students with foundational knowledge of child development, teaching strategies, relationships with families, and skills with creating a developmentally appropriate curriculum for children birth-age 8.

Career Opportunities

Students who earn this certificate can become assistant teachers in preschool/child care programs.

Program Outcomes

- Upon completion of the Certificate of Achievement in Associate Teacher, students are able to assess children’s development through observation, documentation, reflection and interpretation to guide curriculum and intentional teaching.
- Upon completion of the Certificate of Achievement in Associate Teacher, students are able to compare and contrast diverse cultural values, child rearing practices, attitudes towards play and education by developing respectful reciprocal relationships in order to work effectively with children, families, co-workers and community.
- Upon completion of the Certificate of Achievement in Associate Teacher, students are able to intentionally design inclusive,

culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.

- Upon completion of the Certificate of Achievement in Associate Teacher, students are able to synthesize child development research and theories; apply principles with consideration for children's varying characteristics, needs and the multiple interacting influences on children's development.

Required Core: (13 Units)

ECE 50 (Early Childhood Principles and Practices).....	3
ECE 56 (Child Growth and Development)	3
ECE 62 (Child, Family and Community)	3
ECE 63 (Early Childhood Curriculum)	4

Total Units 13

Certificate of Achievement Early Childhood Development

About the Certificate

The goals of the Certificate of Achievement in Early Childhood Development are 1 - to prepare future teachers of children birth to five to provide developmentally appropriate care and education, through educationally sound, culturally engaging and family-centered practices; and 2 - to provide foundational child development and family engagement knowledge and experience to students who may later choose to pursue a Multi-Subject or Single Subject credential through a 4-year college or university. The Early Care and Education Program provides students with a fundamental understanding of the principles of child growth and development, as well as experience in the application of these principles.

Career Opportunities

Career opportunities include: Early childhood teacher, a before and after school teacher.

Program Outcomes

- Upon completion of the Certificate of Achievement in Early Childhood Development, students are able to apply ethical standards of behavior accepted by the profession of early childhood education using ongoing self-reflection to guide practices.
- Upon completion of the Certificate of Achievement in Early Childhood Development, students are able to assess children's development through observation, documentation, reflection and interpretation to guide curriculum and intentional teaching.
- Upon completion of the Certificate of Achievement in Early Childhood Development, students are able to compare and contrast diverse cultural values, child rearing practices, attitudes towards play and education by developing respectful reciprocal relationships in order to work effectively with children, families, co-workers and community.
- Upon completion of the Certificate of Achievement in Early Childhood Development, students are able to demonstrate

practices that maintain standards of health, nutrition, and safety in early childhood settings.

- Upon completion of the Certificate of Achievement in Early Childhood Development, students are able to identify the processes of and contributions to systemic and internalized oppression and privilege. Utilize this information, along with personal reflection, to identify strategies to more effectively educate children in a pluralistic society.
- Upon completion of the Certificate of Achievement in Early Childhood Development, students are able to intentionally design inclusive, culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.
- Upon completion of the Certificate of Achievement in Early Childhood Development, students are able to synthesize child development research and theories; apply principles with consideration for children's varying characteristics, needs and the multiple interacting influences on children's development.
- Upon completion of the Certificate of Achievement in Early Childhood Development, students are able to utilize observation and evaluation processes/tools to apply and implement developmentally appropriate practices in an early care and education setting using knowledge, skills and professional dispositions that promote the development and learning of all young children.

Required Core: (22 Units)

ECE 50 (Early Childhood Principles and Practices).....	3
ECE 56 (Child Growth and Development)	3
ECE 60 (Introduction to the Young Child with Exceptional Needs)	3
ECE 62 (Child, Family and Community)	3
ECE 63 (Early Childhood Curriculum)	4
ECE 90 (Practicum—Supervised Experience)	4
ECE 95 (Work Experience)	1
ECE 96 (Work Experience Seminar)	1

List A: Select One (3 Units)

ECE 40 (Social and Emotional Foundations for Early Learning)	3
ECE 54 (Child Health, Safety, and Nutrition)	3
ECE 69 (Child Study: Observation and Assessment)	3
ECE 79 (Teaching in a Diverse Society).....	3

Total Units 25

Certificate of Achievement Early Childhood Intervention Assistant

About the Certificate

The Certificate of Achievement in Early Childhood Intervention Assistant/Para-Educator is designed to prepare students to be para-educators in early childhood special education classrooms. This certificate also prepares early childhood teachers who will be working in inclusive classrooms.

Career Opportunities

Teacher's assistant in a special education classroom, Para-educator in a special education classroom (K-3 grade), and Teacher's assistant in inclusive preschool classroom.

Program Outcomes

- Upon completion of the Certificate of Achievement in Early Childhood Intervention Assistant, students are able to assess children's development through observation, documentation, reflection and interpretation to guide curriculum and intentional teaching.
- Upon completion of the Certificate of Achievement in Early Childhood Intervention Assistant, students are able to compare and contrast diverse cultural values, child rearing practices, attitudes towards play and education by developing respectful reciprocal relationships in order to work effectively with children, families, co-workers and community.
- Upon completion of the Certificate of Achievement in Early Childhood Intervention Assistant, students are able to demonstrate practices that maintain standards of health, nutrition, and safety in early childhood settings.
- Upon completion of the Certificate of Achievement in Early Childhood Intervention Assistant, students are able to intentionally design inclusive, culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.
- Upon completion of the Certificate of Achievement in Early Childhood Intervention Assistant, students are able to synthesize child development research and theories; apply principles with consideration for children's varying characteristics, needs and the multiple interacting influences on children's development.
- Upon completion of the Certificate of Achievement in Early Childhood Intervention Assistant, students are able to utilize observation and evaluation processes/tools to apply and implement developmentally appropriate practices in an early care and education setting using knowledge, skills and professional dispositions that promote the development and learning of all young children.

Required Core: (32 Units)

ECE 40 (Social and Emotional Foundations for Early Learning)	3
ECE 50 (Early Childhood Principles and Practices).....	3
ECE 54 (Child Health, Safety, and Nutrition).....	3
ECE 56 (Child Growth and Development).....	3
ECE 60 (Introduction to the Young Child with Exceptional Needs) 3	
ECE 62 (Child, Family and Community)	3
ECE 63 (Early Childhood Curriculum)	4
ECE 67 (Infant and Toddler Development and Caregiving).....	3
ECE 90 (Practicum-Supervised Experience)	4
ECE 91 (Adaptive Curriculum for Children with Exceptional Needs).....	3

Total Units 32

Early Care and Education Courses

(ECE)

ECE 10 INTRODUCTION TO EDUCATION 4 UNITS

This course introduces students to the concepts and issues related to teaching diverse learners in today's contemporary schools, TK through the 12th grade. Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, inequities in the field, actions to address inequities, contemporary education issues, California's content standards and frameworks, and teacher performance standards. In addition to class time, the course requires a minimum of 54 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. 54 hours lecture, 54 hours laboratory. AA/AS GE: IV. Transfer: CSU; C-ID# EDUC 200.

Degree Applicable, Credit Grading Option: GR

ECE 29 INDEPENDENT STUDY, 0.5-2 UNITS EARLY CARE AND EDUCATION

For course information, see "Independent Studies". 27-108 hours laboratory.

ECE 40 SOCIAL AND EMOTIONAL FOUNDATIONS FOR EARLY LEARNING 3 UNITS

This course will focus on the healthy social and emotional development of young children ages 0-8, as the foundation for early learning. Students will identify the role of the teacher in establishing learning environments that promote the healthy social and emotional development of young children, the underlying basis for quality teacher-child interactions. Strongly Recommended: ECE 56 with a minimum grade of C, ECE 62 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

ECE 42 EARLY CHILDHOOD MATH AND SCIENCE 3 UNITS

An examination of the constructivist approach to teaching science, technology, engineering and mathematics (STEM) to young children; emphasizing application to everyday experiences of children. Prerequisite: ECE 63 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

ECE 50 EARLY CHILDHOOD PRINCIPLES AND PRACTICES 3 UNITS

Historical context and theoretical perspectives of developmentally appropriate practice in early care and education. Examines the role of the early childhood educator, identification of best practices for environmental design, curriculum, and teaching strategies. Explores constructive teacher-child interactions and relationships, the role of the family in education, culture and inclusion, professional ethics, career pathways and professional standards. 54 hours lecture. Transfer: CSU; C-ID# ECE 120.

Degree Applicable, Credit Grading Option: GR

ECE 54 CHILD HEALTH, SAFETY AND NUTRITION 3 UNITS

This course covers aspects of nutrition, health, and safety that promote and maintain the health and well-being of all children and adults who work with young children. Topics include health and nutritional guidelines; maintaining safe and healthy learning environments; state regulations, policies, and procedures; common childhood illnesses and infectious diseases; school-family collaboration; and emergency preparedness, first aid, and injury prevention. 54 hours lecture. AA GE: VB. Transfer: CSU; CSU GE: E; C-ID# ECE 220.

Degree Applicable, Credit Grading Option: GR

ECE 56 CHILD GROWTH AND DEVELOPMENT 3 UNITS

A study of the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D7, E; IGETC: 4G; C-ID# CDEV 100.

Degree Applicable, Credit Grading Option: GR

ECE 60 INTRODUCTION TO THE YOUNG CHILD WITH EXCEPTIONAL NEEDS 3 UNITS

Introduces the variations in development of infants and children with exceptional needs and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to children with exceptional needs and the identification and referral process. Assessments, interventions and learning environments for infants and children with exceptional needs. Prerequisite: ECE 56 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

ECE 61 LITERATURE FOR THE YOUNG CHILD 3 UNITS

An introduction to young children's literature, the development of speech and language and the exploration of teaching techniques which promote language, literacy and literature for the young child. Selection, evaluation and use of fiction, non-fiction, prose and poetry from existing written and/or recorded children's literature in the early childhood classroom. Approaches to reading books, storytelling, story writing, and use of puppets, flannel boards and props to facilitate children's language and appreciation of literature. 54 hours lecture. AA/AS GE: III. Transfer: CSU; CSU GE: C2.

Degree Applicable, Credit Grading Option: GR

ECE 62 CHILD, FAMILY AND COMMUNITY 3 UNITS

The processes of socialization and identity development, focusing on the interrelationship of family, school, and community. Examines the influence of multiple societal contexts. Explores the role of collaboration between family, community, and schools in supporting

children's development. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D7; C-ID# CDEV 110.

Degree Applicable, Credit Grading Option: GR

ECE 63 EARLY CHILDHOOD CURRICULUM 4 UNITS

This course offers students the opportunity for professional application of the principles of child growth and development in the study of play based, inclusive, emergent curriculum within the physical environment of the infant, toddler and preschool classrooms. Students will learn of a variety of program models used and explore how program models inform curriculum planning. The learning experiences will include program content pertaining to the use of materials, the facilitation and guidance of all children's experiences based on what is culturally and developmentally appropriate for children; utilizing best practices in meeting the children's physical, social, emotional, cognitive and creative needs. Prerequisite: ECE 50 with a minimum grade of C, ECE 56 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

ECE 64 PLAY: MATERIALS AND ENVIRONMENTS 3 UNITS

Application of principles of human growth and development in the consideration of play materials and environments for children birth through early elementary. The selection and development of play materials and environments that are developmentally, culturally, and age-appropriate. Prerequisite: ECE 56 with a minimum grade of C, ECE 50 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

ECE 65 ADMINISTRATION I: PROGRAMS IN EARLY CHILDHOOD EDUCATION 3 UNITS

Introduction to the administration of early childhood programs. Covers program types, budget, management, regulations, laws, development and implementation of policies and procedures. Examines administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program: Relationships with families, and community. Prerequisite: ECE 62 with a minimum grade of C, ECE 63 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

ECE 67 INFANT AND TODDLER DEVELOPMENT AND CAREGIVING 3 UNITS

A study of infants and toddlers from preconception to 36 months including physical, cognitive, language, social and emotional growth and development. Applies theoretical frameworks to interpret behavior and interactions between heredity and environment. Examination of best practices, responsive caregiving techniques, environments, infant/toddler learning foundations, health, safety, and licensing requirements. Prerequisite: ECE 56 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

**ECE 68 ADMINISTRATION II: 3 UNITS
PERSONNEL AND LEADERSHIP
IN EARLY CHILDHOOD EDUCATION**

Effective strategies for personnel management and leadership in early care and education settings. Includes legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program. Prerequisites: ECE 62 with a minimum grade of C, ECE 63 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

**ECE 69 CHILD STUDY: OBSERVATION 3 UNITS
AND ASSESSMENT**

This course focuses on the use of appropriate methods of assessment to document development, growth, play and learning in early childhood education settings. Students will utilize practical classroom experiences to apply a variety of methods to measure child progress, curriculum requirements, and program effectiveness. Methods include child portfolios, recording strategies, rating systems, and other tools that build on respecting and fostering all children's competence and meeting their individual needs. Prerequisite: ECE 56 with a minimum grade of C. 54 hours lecture. Transfer: CSU; C-ID# ECE 200.

Degree Applicable, Credit Grading Option: GR

ECE 74 CHILD GUIDANCE 2 UNITS

Appropriate for classroom teachers in various settings including Transitional Kindergarten, students will identify developmentally appropriate behaviors, challenging behaviors, and the various influences that affect children's behavior. Students will analyze children's behaviors and select strategies to make positive changes. Emphasizes the connection between children's social and emotional development and their success in the classroom, and how the teachers' perceptions, experiences, and behavior influence child behaviors. Upon completion of the course, students should be able to demonstrate strategies that encourage positive social interactions, promote conflict resolution, and develop self-control, self-motivation, and self-esteem in children. 36 hours lecture. Transfer: CSU

Degree Applicable, Credit Grading Option: GR

ECE 78 LANGUAGE DEVELOPMENT 3 UNITS

Review of language acquisition theories and emergent literacy in both monolingual and young English language learners. Includes oral and written language development, developmental stages of receptive and expressive language, print awareness, phonemic awareness and early reading and writing development. Examination of family patterns, cultural values, and environmental circumstances that affect language development and communication styles. Includes assessment and early identification of linguistic delays. Prerequisite: ECE 56 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

**ECE 79 TEACHING IN A DIVERSE 3 UNITS
SOCIETY**

Examines the impact of various societal influences such as privilege, oppression, bias, and discrimination on the development of children's social and personal identity. Self-examination and reflection on

values, beliefs and attitudes related to social identity, stereotypes, conscious and unconscious bias will be emphasized. Recognize and confront barriers that interfere with one's ability to work effectively with diverse populations of children and families. Enhance teacher skills for educating children in a pluralistic society. The class will focus heavily on anti-bias approaches to teaching, curriculum and family partnerships. Strongly Recommended: ECE 62 with a minimum grade of C. 54 hours lecture. AA/AS GE: IV, AC. Transfer: CSU, UC; CSU GE: D3, D7; C-ID# ECE 230.

Degree Applicable, Credit Grading Option: GR

**ECE 80A CA PRESCHOOL 1 UNIT
FOUNDATIONS: HEALTH**

Introduction to the health domain of the California Preschool Learning Foundations and Frameworks including strands of health habits, safety, and nutrition. Provides practical strategies for implementing the curriculum frameworks. Applicable to required or professional development units for Child Development Permit holders, as well as pre-school, transitional kindergarten, and early-primary teachers. 18 hours lecture.

Degree Applicable, Credit Grading Option: GR

**ECE 80B CA PRESCHOOL 1 UNIT
FOUNDATIONS: SOCIAL AND
EMOTIONAL**

Introduction to the social and emotional development domain of the California Preschool Learning Foundations and Frameworks including the strands of self, social interaction, and relationships. Provides practical strategies for implementing the curriculum frameworks developed for this domain. Applicable to required or professional development units for Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers. 18 hours lecture.

Degree Applicable, Credit Grading Option: GR

**ECE 80C CA PRESCHOOL 1 UNIT
FOUNDATIONS: LANGUAGE
AND LITERACY**

Introduction to the language and literacy development domain in the California Preschool Learning Foundations and Frameworks including the strands of listening and speaking, reading, and writing. Provides practical considerations for implementing the curriculum frameworks developed for this domain. Applicable to required or professional development units for Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers. 18 hours lecture.

Degree Applicable, Credit Grading Option: GR

**ECE 80D CA PRESCHOOL 1 UNIT
FOUNDATIONS: ENGLISH
LANGUAGE DEVELOPMENT**

Introduction to the English language learners domain of the California Preschool Learning Foundations and Frameworks including strands of listening, speaking, reading and writing. Provides practical strategies for implementing the curriculum frameworks developed for this domain. Applicable to required or professional development units for Child Development Permit

holders, pre-school, transitional kindergarten, and early-primary teachers. 18 hours lecture.

Degree Applicable, Credit Grading Option: GR

ECE 80E CA PRESCHOOL FOUNDATIONS: HISTORY/SOCIAL SCIENCE 1 UNIT

Introduction to the history and social science domain of the California Preschool Learning Foundations and Frameworks including strands of self and society, civics, history, geography, ecology, and economics. Provides practical strategies for implementing the curriculum frameworks developed for this domain. Applicable to required or professional development units for Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers. 18 hours lecture.

Degree Applicable, Credit Grading Option: GR

ECE 80F CA PRESCHOOL FOUNDATIONS: MATH 1 UNIT

Introduction to the mathematics domain of the California Preschool Learning Foundations and Frameworks including the strands of number sense, algebra and functions, measurement, geometry, and mathematical reasoning. Provides strategies for implementing the curriculum frameworks developed for this domain. Applicable to required or professional development units for Child Development Permit holders, pre-school, transitional kindergarten, and early primary teachers. 18 hours lecture.

Degree Applicable, Credit Grading Option: GR

ECE 80G CA PRESCHOOL FOUNDATIONS: SCIENCE 1 UNIT

Introduces the science domain of the California Preschool Learning Foundations and Frameworks including the strands of scientific inquiry, physical, life, and earth sciences and provides practical strategies for implementing the curriculum frameworks developed for this domain. Applicable to required or professional development units for Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers. 18 hours lecture.

Degree Applicable, Credit Grading Option: GR

ECE 80H CA PRESCHOOL FOUNDATIONS: VISUAL ARTS 1 UNIT

Introduction to the visual arts domain of the California Preschool Learning Foundations and Frameworks including artistic expression and response, and skills using various art mediums. Provides practical strategies for implementing the curriculum frameworks developed for this domain. Applicable to required or professional development units for Child Development Permit holders, preschool, transitional kindergarten, and early-primary teachers. 18 hours lecture.

Degree Applicable, Credit Grading Option: GR

ECE 80I CA PRESCHOOL FOUNDATIONS: PHYSICAL DEVELOPMENT 1 UNIT

Introduction to the physical development domain of the California Preschool Learning Foundations and Frameworks including strands of fundamental movement skills, perceptual-motor skills and

movement concepts, and active physical play. Provides practical strategies for implementing the curriculum frameworks developed for this domain. Applicable to required or Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers. 18 hours lecture.

Degree Applicable, Credit Grading Option: GR

ECE 80J CA PRESCHOOL FOUNDATIONS: PERFORMING ARTS 1 UNIT

Introduction to the performing arts domain of the California Preschool Learning Foundations and Frameworks including strands of music, drama, and dance. Provides practical strategies for implementing the curriculum frameworks developed for this domain. Applicable to required or professional development units for Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers. 18 hours lecture.

Degree Applicable, Credit Grading Option: GR

ECE 83 ADULT MENTORING AND SUPERVISION 2 UNITS

Methods and principles of mentoring and supervising adults in early care and education settings. Emphasis on the role of experienced classroom teachers who function as mentors and leaders to new teachers and other adults while simultaneously addressing the needs of children, families and other staff. Also, a focus on self-reflection and "soft skills set obtainment" emphasized. Prerequisite: ECE 62 with a minimum grade of C and ECE 63 with a minimum grade of C. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

ECE 87 QUALITY ENVIRONMENTS FOR INFANTS AND TODDLERS 3 UNITS

Applies current theory and research to the care and education of infants and toddlers in group care. Examines essential policies, classroom environments, caregiving principles and practices that lead to quality care and developmentally appropriate curriculum for infants and toddlers which is culturally sensitive and supports families. Strongly Recommended: ECE 67 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

ECE 90 PRACTICUM - SUPERVISED EXPERIENCE 4 UNITS

Practicum experience working with young children under the supervision of an ECE/CD faculty; Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build comprehensive understanding of children and families. Child centered, play oriented approaches to teaching, learning and assessment and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. Prerequisite: ECE 50 with a minimum grade of C and ECE 56 with a minimum grade of C and ECE 62 with a minimum grade of C and ECE 63 with a minimum grade of C. 36 hours lecture, 108 hours laboratory. Transfer: CSU; C-ID# ECE 210.

Degree Applicable, Credit Grading Option: GR

ECE 91 ADAPTIVE CURRICULUM 3 UNITS
FOR CHILDREN WITH
EXCEPTIONAL NEEDS

Provides direct experience working with young children in special day classes or inclusive settings. Application of intervention strategies using best practices of early childhood development and special education in adapting curriculum to meet the individual needs of children. Observation of the assessment process by the special education team and assisting in the implementation of the educational plan. Includes the role of the teacher as a professional working in partnership with families, collaboration with interdisciplinary teams and cultural competence. Lab hours required in an inclusive setting. Prerequisite: ECE 60 with a minimum grade of C and ECE 90 with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

ECE 95 WORK EXPERIENCE 1-3 UNITS

Cooperative effort between, student, supervisor and instructor to accomplish professional work objectives and broaden experiences. On-the-job work experience to build early childhood competencies. Corequisite: ECE 96. 75-225 hours paid work experience. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

ECE 96 WORK EXPERIENCE SEMINAR 1 UNIT

Discussion and analysis of typical problems often encountered by employees at the workplace. Application of National Association for the Education of Young Children (NAEYC) Code of Ethical Conduct to difficult situations that occur at the job site. Develop and complete measurable developmentally appropriate goals in early care and education settings. Corequisite: ECE 95. 18 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

ECONOMICS

Economics is central to many issues facing us today—job creation, wage determination, health-care reform, future of social security, economic prosperity, and environmental sustainability—all require knowledge of economics. Economics, often called the “science of choice,” analyzes how individuals, households, firms, and governments interact. Understanding those interactions is a distinctive feature of economics as a discipline and explains why so many everyday issues have an important economic dimension.

Programs of Study

Degrees:

- AA-T - Economics

AA-T – Economics

About the Degree

The Las Positas College Economics program offers courses that lead to an Associate of Science in Economics for Transfer degree. The major requirements for the Associate in Arts in Economics for Transfer degree align with the Intersegmental Transfer Model Curriculum (TMC) for Economics. Students will have guaranteed admission to a California State University (CSU) campus upon successful completion of the program requirements. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education - Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
 2. Obtainment of a minimum grade point average of 2.0.
- Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AA-T in Economics, students are able to use marginal analysis to explain how individuals in the economy make their production and purchasing decisions.
- Upon completion of the AA-T in Economics, students are able to explain how market forces of supply and demand lead to efficient allocation of goods, services and factors of production.
- Upon completion of the AA-T in Economics, students are able to use key economic indicators, such as GDP, CPI and Unemployment Rate, to analyze the economy and explain how monetary and fiscal policies affect short-term fluctuations of economic activity.

Required Core: (15 Units)

ECON 1 (Principles of Microeconomics).....	3
ECON 2 (Principles of Macroeconomics)	3
MATH 1 (Calculus I) or	
MATH 34 (Calculus for Business and Social Sciences)	5
MATH 40 (Statistics and Probability)	4

List A: Select One (3-5 Units)

BUSN 1A (Financial Accounting).....	4
BUSN 1B (Managerial Accounting).....	4
CIS 50 (Introduction to Computing Information Technology)	3
CS 1 (Computing Fundamentals).....	3
CS 7 (Introduction to Computer Programming Concepts).....	3
MATH 2 (Calculus II)	5
MATH 33 (Finite Mathematics)	4

EMERGENCY MEDICAL SERVICES

The Emergency Medical Services program prepares students to achieve certification and licensure to enter into EMS career paths. Students begin their training by completing the first career related courses within the program – EMS 30 Emergency Medical Responder, and EMS 20 Emergency Medical Technician with certification as an “EMT” through the California State EMS Authority.

The program also includes curriculum necessary to prepare students to become a Nationally Registered Paramedic (NRP). Students, upon successful completion of the Las Positas College Paramedic Training Program, including the didactic, clinical, and field internship components, will be eligible to sit for the licensing examination as a Paramedic with the National Registry of Emergency Medical Technicians (NREMT), and successful students will be eligible for licensure as an Emergency Medical Technician – Paramedic (EMT-P) in the state of California.

The Las Positas College Paramedic Training Program has been approved by the California State EMS Authority through the Alameda County EMS Agency until May 31, 2020. The Las Positas College Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). This accreditation is initial and expires on March 31, 2022.

To contact CAAHEP: 25400 US Highway 19 North, Suite 158, Clearwater, FL 33763, Phone: (727) 210-2350, Fax: (727) 210-2354 <http://www.caahep.org>

To contact the CoAEMSP: 8301 Lakeview Parkway Suite 111- 312, Rowlett, TX 75088; Phone (214) 703-8445; Fax (214) 703- 8992; or www.coaemsp.org.

Programs of Study

Degrees:

- AS – Emergency Medical Services EMT-Paramedic

Certificates of Achievement:

- Emergency Medical Services EMT-Paramedic
- Emergency Medical Technologies

Certificates of Accomplishment:

- Emergency Medical Responder

Career Opportunities

Health Science is one of the most promising growth careers in the United States. The EMT and the Paramedic get jobs in the public sector as an employee of a Fire Department, the private sector of an Emergency Department, Trauma Center, or responding under contract with a county or private emergency ambulance service.

AS – Emergency Medical Services EMT-Paramedic

About the Degree

This program is designed to prepare students to take and pass the National Registry Emergency Medical Technician - Paramedic (NREMT-P) examination so they can become Licensed Paramedics in the state of California. It also prepares students to transfer and earn a BA in Paramedics. Students that complete the Associate of Science in Emergency Medical Services EMT-Paramedic degree are able to gain employment as paramedic firefighters, paramedics on ambulances that serve the community as Advanced Life Support 9-1-1 providers, and in certain limited situations work in the hospital setting.

Career Opportunities

Students that earn this degree can find employment as a firefighter, paramedic with an ambulance company, and in specific and limited cases, work in a hospital.

Program Outcomes

- Upon completion of the AS in Emergency Medical Services EMT-Paramedics, students are prepared as a competent entry-level Paramedic in the cognitive (knowledge) learning domain with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technician, and/or Emergency Medical Responder levels.
- Upon completion of the AS in Emergency Medical Services EMT-Paramedic, students are prepared as a competent entry-level Paramedics in the affective (behavior) learning domain with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technician, and/or Emergency Medical Responder levels.
- Upon completion of the AS in Emergency Medical Services EMT-Paramedic, students are prepared as a competent entry-level Paramedics in the psychomotor (skills) learning domain with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technician, and/or Emergency Medical Responder levels.
- Upon completion of the AS in Emergency Medical Services EMT-Paramedic, students are prepared to become a Nationally Registered Paramedic (NRP).

Required Core: (51 Units)

BIO 50 (Anatomy and Physiology).....	4
EMS 10 (Paramedic Theory 1).....	6
EMS 11 (Paramedic Theory 2).....	6
EMS 12 (Paramedic Laboratory 1)	4
EMS 13 (Paramedic Laboratory 2)	4
EMS 16 (Paramedic Clinical Occupational Work Experience)	4
EMS 17 (Paramedic Capstone Occupational Work Experience)	10
EMS 20 (Emergency Medical Technician)	7
EMS 30 (Emergency Medical Responder).....	3
EMS 62 (Basic Medical Terminology).....	3

Program Based GE[^]: (3 Units)

CMST 1 (Fundamentals of Public Speaking)3

Total Units for the Major 51

△ Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Emergency Medical Services EMT-Paramedic

About the Certificate

This program is designed to prepare students to take and pass the National Registry Emergency Medical Technician - Paramedic (NREMT) examination so they can become Licensed Paramedics in the state of California. It also prepares students to transfer and earn a BA in Paramedics. Students that complete the Certificate of Achievement in Emergency Medical Services EMT-Paramedic degree are able to gain employment as paramedic firefighters, paramedics on ambulances that serve the community as Advanced Life Support 9-1-1 providers, and in certain limited situations work in the hospital setting.

Career Opportunities

Students that earn this degree can find employment as a firefighter, paramedic with an ambulance company, and in specific and limited cases, work in a hospital.

Program Outcomes

- Upon completion of the Certificate of Achievement in Emergency Medical Services EMT-Paramedic, students are prepared as a competent entry-level Paramedics in the cognitive (knowledge) learning domain with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technician, and/or Emergency Medical Responder levels.
- Upon completion of the Certificate of Achievement in Emergency Medical Services EMT-Paramedic, students are prepared as a competent entry-level Paramedics in the affective (behavior) learning domain with or without exit points at the Advanced Emergency Medical Technician and/or Emergency

Medical Technician, and/or Emergency Medical Responder levels.

- Upon completion of the Certificate of Achievement in Emergency Medical Services EMT-Paramedic, students are prepared as a competent entry-level Paramedics in the psychomotor (skills) learning domain with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technician, and/or Emergency Medical Responder levels.
- Upon completion of the Certificate of Achievement in Emergency Medical Services EMT-Paramedic, students are prepared to become a Nationally Registered Paramedic (NRP).

Required Core: (51 Units)

EMS 30 (Emergency Medical Responder).....	3
EMS 62 (Basic Medical Terminology).....	3
BIO 50 (Anatomy and Physiology).....	4
EMS 20 (Emergency Medical Technician).....	7
EMS 10 (Paramedic Theory 1).....	6
EMS 11 (Paramedic Theory 2).....	6
EMS 12 (Paramedic Laboratory 1).....	4
EMS 13 (Paramedic Laboratory 2).....	4
EMS 16 (Paramedic Clinical Occupational Work Experience).....	4
EMS 17 (Paramedic Capstone Occupational Work Experience).....	10

Total Units 51

Certificate of Achievement Emergency Medical Technologies

About the Certificate

The Certificate of Achievement in Emergency Medical Technologies is designed to provide students an entrance to the profession of emergency medical services.

Career Opportunities

Jobs include EMT's on an ambulance, emergency room technicians, observers on a police helicopter, athletic trainers, EMT's at skilled nursing facilities, patient transporters at hospitals, lifeguards, and ski patrol officers, among others.

Program Outcomes

- Upon completion of the Certificate of Achievement in Emergency Medical Technologies, students are able to function at the California State certified level of EMT.
- Upon completion of the Certificate of Achievement in Emergency Medical Technologies, students are able to become a Nationally Registered Emergency Medical Technician (NREMT).

Required Core: (17 Units)

BIO 50 (Anatomy and Physiology).....	4
EMS 20 (Emergency Medical Technician).....	7
EMS 30 (Emergency Medical Responder).....	3
EMS 62 (Basic Medical Terminology).....	3

Total Units 17 100 X.

**Certificate of Accomplishment
Emergency Medical Responder §**

About the Certificate

The Certificate of Accomplishment in Emergency Medical Responder is designed to prepare the student for a job such as firefighter, lifeguard and police officer.

Career Opportunities

Possible jobs for this certificate include firefighter, lifeguard, police officer, and ski patrol member.

Program Outcomes

- Upon completion of the Certificate of Accomplishment in Emergency Medical Responder, students are able to competent as an entry-level Emergency Medical Responder in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains with exit points at the Emergency Medical Responder levels and certified to provide Basic Life Support CPR.
- Upon completion of the Certificate of Accomplishment in Emergency Medical Responder, students are able to prepared to become an Emergency Medical Responder (EMR) through registration with the National Registry of EMT's.
- Upon completion of the Certificate of Accomplishment in Emergency Medical Responder, students are able to competent and prepared for employment as a Lifeguard, Police Officer, and/or Search and Rescue Squad member.

Required Core: (3.5 Units)

EMS 30 (Emergency Medical Responder).....3
EMS 70 (CPR for Health Care Providers).....0.5

Total Units 3.5

§ This certificate is not transcribed. This group of courses provides industry-based professional development. Individual courses will appear on transcript. See a counselor for further information.

**Emergency Medical Services
Courses (EMS)**

EMS 10 PARAMEDIC THEORY 1 6 UNITS

General paramedic didactic education and training following the current Department of Transportation National Emergency Services Education Standards (NEMSES) and California Code of Regulations, Title 22. Includes cognitive content associated with: preparatory, anatomy and physiology, pharmacology, airway management, patient assessment, and trauma patient management. Prerequisite: EMS 20 with a minimum grade of B, BIO 50 with a minimum grade of C, EMS 62 with a minimum grade of C. Corequisite: EMS 12. 108 hours lecture. Transfer: CSU; C-ID# EMS

Degree Applicable, Credit Grading Option: GR

EMS 11 PARAMEDIC THEORY 2 6 UNITS

This course provides paramedic didactic education and training following the current Department of Transportation National Emergency Services Education Standards (NEMSES) and California Code of Regulations, Title 22. Includes cognitive content associated with: Medical emergencies, special patient populations, and EMS operations. Prerequisite: EMS 10 with a minimum grade of C, EMS 12 with a minimum grade of C. Corequisite: EMS 13. 108 hours lecture. Transfer: CSU; C-ID# EMS 101 X.

Degree Applicable, Credit Grading Option: GR

EMS 12 PARAMEDIC LABORATORY 1 4 UNITS

Provides the skills portion of the current Department of Transportation National Emergency Services Education Standards (NEMSES) and California Code of Regulations, Title 22. Includes psychomotor skills associated with: preparatory, anatomy and physiology, pharmacology, airway management, patient assessment, and trauma patient management. Prerequisite: EMS 20 with a minimum grade of B, BIO 50 with a minimum grade of C, EMS 62 with a minimum grade of C. Corequisite: EMS 10. 216 hours laboratory. Transfer: CSU; C-ID# EMS 102 X.

Degree Applicable, Credit Grading Option: P/NP

EMS 13 PARAMEDIC LABORATORY 2 4 UNITS

Provides the skills portion of the current Department of Transportation National Emergency Services Education Standards (NEMSES) and California Code of Regulations, Title 22. Includes psychomotor skills associated with: medical patient management, cardiac patient management, special populations, EMS operations, and simulated patient encounters. Prerequisite: EMS 10 with a minimum grade of C, EMS 12 with a minimum grade of C. Corequisite: EMS 11. 216 hours laboratory. Transfer: CSU; C-ID# EMS 103 X.

Degree Applicable, Credit Grading Option: P/NP

**EMS 16 PARAMEDIC CLINICAL
OCCUPATIONAL WORK
EXPERIENCE 3-4 UNITS**

Occupational work experience course that provides instruction to enhance student's knowledge of emergency care in a clinical setting. Students are provided access to adequate numbers of patients, proportionally distributed by illness, injury, gender, age, and common problems encountered in the delivery of emergency care appropriate to the level of the Emergency Medical Services Profession(s). Hospital/clinical experiences include the operating room, recovery room, intensive care unit, coronary care unit, labor and delivery room, pediatrics, and emergency department, and include exposure to an adequate number of pediatric, obstetric, psychiatric, and geriatric patients. Prerequisite: EMS 10 with a minimum grade of C, EMS 11 with a minimum grade of C, EMS 12 with a minimum grade of C, EMS 13 with a minimum grade of C. 180-240 hours non-paid work experience. Course may be taken any number of times for a maximum of 16 units of Cooperative Work Experience. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

EMS 17 PARAMEDIC CAPSTONE OCCUPATIONAL WORK EXPERIENCE 1-8 UNITS

An occupational work experience course that provides practicum experience for paramedic students to observe and participate in emergency medical care supervised by a preceptor in an emergency response vehicle. Requires a minimum of 480 hours, and students must document at least 40 advanced life support (ALS) patient contacts. Student will provide the full continuum of care from initial contact to transfer of care at the receiving facility for half of all ALS contacts. Students must obtain minimum competency as a Team Leader. The field internship provides the student with an opportunity to serve as team leader in a variety of pre-hospital advanced life support emergency medical situations. 1.00 - 8.00 Units Work Experience Prerequisite: EMS 16 - with a minimum grade of P. 60-480 non paid work experience. Course may be taken any number of times for a maximum of 16 units.

Degree Applicable, Credit Grading Option: P/NP

EMS 20 EMERGENCY MEDICAL TECHNICIAN 7 UNITS

Provides training in the foundation skills and knowledge required of the EMT scope of practice. The EMT certification is the minimum requirement for ambulance attendants and most entry-level firefighter positions. EMT certification is also required for entry into paramedic training. This training program is accredited by the Alameda County Emergency Medical Services District. Prerequisite: EMS 30 with a minimum grade of B. 90 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

EMS 30 EMERGENCY MEDICAL RESPONDER 3 UNITS

Development of knowledge and skills necessary for recognizing and caring for victims in emergency situations, including patient assessment, cardiopulmonary resuscitation with the use of an automated external defibrillator, and prevention of disease transmission. Designed for emergency medical responders in the public safety field. Successful completion of the psycho-motor skills tests and successful completion of the course with a score of 80%, and achieving a score on the course summative final at (80%) qualifies the student for an Emergency Medical Responder (EMR) Certificate issued by the Emergency Care and Safety Institute (ECSI). Strongly Recommended: EMS 70B with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: GR

EMS 62 BASIC MEDICAL TERMINOLOGY 3 UNITS

A basic course in medical terminology designed for students in studying for Allied Health careers such as Surgical Technologist, Paramedic, Pre-nursing, and Radiology Technician. Medical vocabulary with concentration on prefixes, suffixes, and root words. Emphasis on word dissection, definitions as applied to the body

systems including the terminology used in surgical procedures. Concepts focus on comprehensive terminology, pronunciation and spelling core. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

EMS 70 CPR FOR HEALTH CARE PROVIDERS 0.5 UNITS

Development of knowledge, skills and personal judgment necessary to initiate and perform basic life support techniques as a health care professional. Successful completion of the knowledge and skills tests qualifies for an American Heart Association Basic Life Support Certificate. 9 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

EMS 91 EMERGENCY MEDICAL TECHNICIAN - REFRESHER 1 UNIT

Provides a refresher in the foundation and knowledge required of the EMT – 1 scope of practice. The EMT – 1 certification is the minimum requirement for ambulance attendants and most entry-level firefighter positions. EMT-1 certification is also required for entry into paramedic training. This refresher program is accredited by the Alameda County Emergency Medical Services Agency. The course provides a minimum of 24 hours of continuing education units or a course completion certificate. Additionally, the course provides skills verification testing that EMTs must complete every two years. Prerequisite: Proof of California State EMSA or National Registration Certification as an “Emergency Medical Technician.” Certification must be current, or expired less than 6 months. Student may also present documentation from the National Registry of Emergency Medical Technicians showing failure of initial three attempts at NREMT Certification Examination which now requires completion of EMS 91 for additional attempts to register for certification examination. 9 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

ENGINEERING

The Engineering Transfer program at Las Positas College is designed to prepare students to transfer to an engineering major at a four-year institution. The transfer program includes rigorous coursework from several different departments, including Engineering, Mathematics, Physics, Chemistry, and Computer Science. Although students study general engineering majors at Las Positas, students transfer to specific engineering departments at four-year institutions.

The Engineering Technology program at Las Positas College is a two-year degree pathway resulting in an A.S. in Engineering Technology. This cohort-based learning community is designed as a strong local employment pathway for military veterans and others who want a hands-on engineering career with a focus on mechanical technology in an applied setting. Students receive foundational training in engineering, mathematics, physics, and welding, and develop skills in manufacturing and fabrication, problem-solving, and critical thinking. An accelerated mathematics sequence advances students from intermediate algebra to calculus-readiness in one year. The Learning Community model also delivers integrated career-readiness and support services. Eligible students have the opportunity to apply for a summer internship or work experience featuring valuable worksite activities, tours, hands-on training, and job-shadowing opportunities at a local engineering company or national laboratory. Graduates of the Engineering Technology program may be employed as mechanical technicians, mechanical technologists, or in other applied engineering fields.

For more information see:

<http://www.laspositascollege.edu/engineering/>

Veterans interested in the Engineering Technology program and benefits and services for Veterans, contact Todd Steffan, tsteffan@laspositascollege.edu. Additional information on the Engineering Technology program can be found by contacting lpc-engrtech@laspositascollege.edu

Programs of Study

Degrees:

- AS – Civil/Mechanical Engineering
- AS – Electrical Engineering
- AS – Electrical Engineering UC Pathway
- AS – Engineering
- AS – Engineering Technology
- AS – Mechanical Engineering UC Pathway
- AS – Software Engineering

Certificates of Achievement:

- Civil/Mechanical Engineering
- Electrical Engineering
- Electrical Engineering UC Pathway

- Engineering
- Engineering Technology
- Mechanical Engineering UC Pathway
- Software Engineering

Career Opportunities

With further study, engineers are responsible for developing a range of projects and designs from “simple” everyday items (cell phones, appliances) to complex (satellites, medical imagery instrumentation). Engineering offers many discipline options, including Aerospace, Biomedical, Civil, Computer, Electrical, and Mechanical.

AS – Civil/Mechanical Engineering

About the Degree

The Associates of Science in Civil/Mechanical Engineering is offered to prepare students to transfer to a four-year institution as a Civil or Mechanical engineering major. The core courses required for this degree will fulfill many of the lower division requirements for most campuses in the UC and CSU systems. This program will enable students to develop a strong foundational understanding in engineering, physics and mathematics that will be essential as they continue on the engineering pathway. In addition, students will benefit from hands-on laboratory experiences in their engineering and science courses allowing them to learn by doing. The LPC Civil/Mechanical Engineering degree is intended for transfer. Students are encouraged to meet with a counselor early on and refer to the catalog of the prospective transfer institution to determine specific major requirements required for transfer since they can vary from university to university. Finally, because this program is a high-unit major, counselors can also assist in determining appropriate general education courses to complete the degree requirements.

Career Opportunities

Preparation for entry level jobs in Civil and Mechanical Engineering generally require a bachelor’s degree in the respective discipline. Civil Engineers design, construct, manage and maintain facilities essential to modern life including buildings, highways, transit hubs, and water systems. They can also work in the construction, environmental and geotechnical industries. Civil Engineers are often employed by local municipalities, consulting firms or large scale construction companies. Mechanical Engineers design, develop, build and test mechanical tools, engines and a wide variety of other equipment. They can work in almost any industry using tools such as Computer Aided Design (CAD) to design everything from a robot used in automotive manufacturing to a more efficient jet engine.

Program Outcomes

- Upon completion of the AS in Civil/Mechanical Engineering, students are able to apply fundamental principles from mathematics, science and engineering to solve a civil/mechanical engineering-related problem.

- Upon completion of the AS in Civil/Mechanical Engineering, students are able to set up appropriate laboratory equipment, collect and analyze civil/mechanical data, draw conclusions, and clearly communicate results.
- Upon completion of the AS in Civil/Mechanical Engineering, students are able to use a variety of technological tools to solve civil/mechanical engineering problems.

Required Core: (52.5 Units)

CHEM 1A (General College Chemistry I).....	5
ENGR 1 (Introduction to Engineering).....	2
ENGR 23 (Engineering Graphics).....	3
ENGR 26 (Computational Methods for Engineers and Scientists) ...	3
ENGR 35 (Statics).....	3
ENGR 44 (Introduction to Circuit Analysis).....	4
ENGR 46 (Materials of Engineering).....	4
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II).....	5
MATH 3 (Multivariable Calculus).....	5
MATH 5 (Ordinary Differential Equations).....	3.5
PHYS 1A (General Physics I).....	5
PHYS 1C (General Physics III).....	5

Program-Based GE[^]: Select One (3 Units)

CMST 1 (Fundamentals of Public Speaking).....	3
CMST 10 (Interpersonal Communication).....	3

Total Units for the Major 52.5

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Electrical Engineering

About the Degree

The Associates of Science in Electrical Engineering is offered to prepare students to transfer to a California State University or other university (with the exception of University of California) as an Electrical Engineering major. This program will enable students to develop a strong foundational understanding in engineering, physics and mathematics that will be essential as they continue on the engineering pathway. In addition, students will

benefit from hands-on laboratory experiences in their engineering and science courses allowing them to learn by doing. The LPC Electrical Engineering degree is intended for transfer to a CSU or other non-UC university. Students are encouraged to meet with a counselor early on and refer to the catalog of the prospective transfer institution to determine specific major requirements required for transfer since they can vary from university to university. Finally, because this program is a high-unit major, counselors can also assist in determining appropriate general education courses to complete the degree requirements. If interested in transferring to a UC as an Electrical Engineering major, please see the Associates of Science in Electrical Engineering UC Pathway.

Career Opportunities

This program provides a solid foundation for those who want to continue their education and earn a bachelors degree in electrical or electronic engineering which is generally required for entry level electrical/electronic engineering jobs. This program also prepares students for entry level jobs installing, repairing and maintaining electrical and electronic equipment in numerous different industry sectors. These industry sectors may include the auto industry, aerospace industry, airline industry, commercial contracting, construction and others.

Program Outcomes

- Upon completion of the AS in Electrical Engineering, the students are able to apply fundamental principles from mathematics, science and engineering to solve an electrical engineering-related problem.
- Upon completion of the AS in Electrical Engineering, the students are able to set up appropriate laboratory equipment, collect and analyze electrical data, draw conclusions, and clearly communicate results.
- Upon completion of the AS in Electrical Engineering, the students are able to use a variety of technological tools to solve electrical engineering problems.

Required Core: (42.5 Units)

CHEM 1A (General College Chemistry I).....	5
ENGR 1 (Introduction to Engineering).....	2
ENGR 26 (Computational Methods for Engineers and Scientists) ...	3
ENGR 44 (Introduction to Circuit Analysis).....	4
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II).....	5
MATH 3 (Multivariable Calculus).....	5
MATH 5 (Ordinary Differential Equations).....	3.5
PHYS 1A (General Physics I).....	5
PHYS 1C (General Physics III).....	5

Program-Based GE[^]: Select One (3 Units)

CMST 1 (Fundamentals of Public Speaking).....	3
CMST 10 (Interpersonal Communication).....	3

Total Units for the Major 42.5

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete

the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Electrical Engineering UC Pathway

About the Degree

The Associates of Science in Electrical Engineering UC Pathway is offered to prepare students to transfer a school in the University of California system as an Electrical Engineering major. This program will enable students to develop a strong foundational understanding in engineering, physics and mathematics that will be essential as they continue on the engineering pathway. In addition, students will benefit from hands-on laboratory experiences in their engineering and science courses allowing them to learn by doing. The LPC Electrical Engineering UC Pathway degree is intended for transfer to the University of California system. Students are encouraged to meet with a counselor early on and refer to the catalog of the prospective transfer institution to determine specific major requirements required for transfer since they can vary from university to university. Finally, because this program is a high-unit major, counselors can also assist in determining appropriate general education courses to complete the degree requirements. If interested in transferring to a CSU or other university not in the UC system as an Electrical Engineering major, please see the Associates of Science in Electrical Engineering.

Career Opportunities

This program provides a solid foundation for those who want to continue their education and earn a bachelors degree in electrical or electronic engineering which is generally required for entry level electrical/electronic engineering jobs. This program also prepares students for entry level jobs installing, repairing and maintaining electrical and electronic equipment in numerous different industry sectors. These industry sectors may include the auto industry, aerospace industry, airline industry, commercial contracting, construction and others.

Program Outcomes

- Upon completion of the AS in Electrical Engineering UC Pathway, students are able to apply fundamental principles from mathematics, science and engineering to solve an electrical engineering-related problem.
- Upon completion of the AS in Electrical Engineering UC Pathway, students are able to set up appropriate laboratory

equipment, collect and analyze electrical data, draw conclusions, and clearly communicate results.

- Upon completion of the AS in Electrical Engineering UC Pathway, students are able to use a variety of technological tools to solve electrical engineering problems.

Required Core: (53 Units)

CHEM 1A (General College Chemistry I).....	5
CS 1 (Computing Fundamentals I).....	4
ENGR 44 (Introduction to Circuit Analysis).....	4
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II).....	5
MATH 3 (Multivariable Calculus).....	5
MATH 5 (Ordinary Differential Equations).....	3.5
MATH 7 (Elementary Linear Algebra).....	3.5
PHYS 1A (General Physics I).....	5
PHYS 1B (General Physics II).....	5
PHYS 1C (General Physics III).....	5
PHYS 1D (General Physics IV).....	3

Program-Based GE[^]: Select One (3 Units)

CMST 1 (Fundamentals of Public Speaking).....	3
CMST 10 (Interpersonal Communication).....	3

Total Units for the Major 53

[^] Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Engineering

About the Degree

The Associates of Science in Engineering is offered to prepare students to transfer to a four-year institution as an engineering major. The core courses required for this degree will fulfill many of the lower division requirements for most campuses in the UC and CSU systems. This program will enable students to develop a strong foundational understanding in engineering, physics and mathematics that will be essential as they continue on the engineering pathway. In addition, students will benefit from hands-on laboratory experiences in their engineering and science courses allowing them to learn by doing. The LPC Engineering degree is intended for transfer, but some students may be able to obtain employment as an engineering technician or

engineering technologist. Students are encouraged to meet with a counselor early on and refer to the catalog of the prospective transfer institution to determine specific major requirements required for transfer since they can vary from university to university. Finally, because this program is a high-unit major, counselors can also assist in determining appropriate general education courses to complete the degree requirements.

Career Opportunities

Preparation for entry level jobs in Engineering generally requires a bachelor's degree in a specific engineering discipline. Engineering disciplines, or branches, include Aeronautical, Biomedical, Chemical, Civil, Computer, Electrical, Industrial, Manufacturing, and Mechanical Engineering. Engineering is an exciting, challenging and dynamic industry. Engineers use both scientific and mathematical principles to solve real world problems and to improve the lives of people around the globe. They can design everything from satellites that are used for global positioning systems (GPS) to biomedical devices such as stents and prosthetics, to more efficient processes to manufacture all-purpose household cleaner, and so much more.

Program Outcomes

- Upon completion of the AS in Engineering, students are able to apply fundamental principles from mathematics, science and engineering to solve an engineering-related problem.
- Upon completion of the AS in Engineering, students are able to set up appropriate laboratory equipment, collect and analyze data, draw conclusions, and clearly communicate results.
- Upon completion of the AS in Engineering, students are able to use a variety of technological tools to solve engineering problems.

Required Core: (33.5 Units)

MATH 1 (Calculus I).....	5
MATH 2 (Calculus II).....	5
MATH 3 (Multivariable Calculus).....	5
MATH 5 (Ordinary Differential Equations).....	3.5
PHYS 1A (General Physics I).....	5
PHYS 1B (General Physics II).....	5
PHYS 1C (General Physics III).....	5

List A: Select Four (13-14 Units)

ENGR 23 (Engineering Graphics).....	3
ENGR 26 (Computational Methods for Engineers and Scientists) ...	3
ENGR 35 (Statics).....	3
ENGR 44 (Introduction to Circuit Analysis).....	4
ENGR 46 (Materials of Engineering).....	4

List B: Select Two (5-9 Units)

CHEM 1A (General College Chemistry I).....	5
CS 1 (Computing Fundamentals I).....	4
ENGR 1 (Introduction to Engineering).....	2
MATH 7 (Elementary Linear Algebra).....	3.5
PHYS 1D (General Physics IV).....	3

Program-Based GE[^]: Select One (3 Units)

CMST 1 (Fundamentals of Public Speaking).....	3
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CMST 10 (Interpersonal Communication).....	3
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Total Units for the Major 51.5-56.5

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Engineering Technology

About the Degree

The Associate of Science in Engineering Technology program at Las Positas College is designed for those who want a hands-on engineering career with a focus on mechanical technology in an applied setting. The emphasis is on Mechanical Engineering applications and developing an understanding of how engineering, technology and manufacturing principles are applied in practice. The program provides students with foundational knowledge in mathematics, critical thinking, problem solving, and engineering design, as well as skills in manufacturing, fabrication, and welding so that students are able to adapt to the ever-changing modern industrial workplace. Students may also choose to continue their education towards a degree in a related engineering discipline.

Career Opportunities

Graduates of the program may find employment as mechanical technicians, mechanical technologists, stationary engineers, or in other applied engineering fields and may collaborate with scientists, engineers, designers, and manufacturing professionals.

Program Outcomes

- Upon completion of the AS in Engineering Technology, students are able to use a variety of technological tools to solve engineering problems.
- Upon completion of the AS in Engineering Technology, students are able to set up appropriate laboratory equipment, collect and analyze data, draw conclusions, and clearly communicate results.
- Upon completion of the AS in Engineering Technology, students are able to use a variety of technological tools to solve engineering technology problems.

Required Core: (27 Units)

ENGR 1 (Introduction to Engineering).....	2
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ENGR 23 (Engineering Graphics)	3
ENGR 37 (Applied Statics and Materials).....	3
MATH 39 (Trigonometry).....	4
MATH 30 (College Algebra for STEM)	4
PHYS 10 (Descriptive Physics)	3
PHYS 10L (Descriptive Physics Lab)	1
WLDT 10 (Machining for the Metal Trades)	4
WLDT 62A (Beginning GTAW and GMAW Theory)	1
WLDT 62AL (Beginning GTAW and GMAW Skills Lab)	2

List A: Select One Group (4 Units)

Group 1

ENGR 50 (Introduction to Electronic Systems and Measurements) .	4
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Group 2

WLDT 63 (Welding Layout and Fitting).....	2
WLDT 79 (Manufacturing Processes)	2

List B: Select One (3 Units)

WRKX 94 (Occupational Work Experience/Internship)	3
WRKX 95 (General Work Experience)	3

Program-Based GE[^]: (3 Units)

CMST 1 (Fundamentals of Public Speaking)	3
CMST 10 (Interpersonal Communication).....	3

Total Units for the Major 34

[^] Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Mechanical Engineering UC Pathway

About the Degree

The Associates of Science in Mechanical Engineering UC Pathway degree is offered to prepare students to transfer a school in the University of California system as a Mechanical Engineering major. This program will enable students to develop a strong foundational understanding in engineering, physics and mathematics that will be essential as they continue on the engineering pathway. In addition,

students will benefit from hands-on laboratory experiences in their engineering and science courses allowing them to learn by doing. The LPC Mechanical Engineering degree is intended for transfer to the University of California system. Students are encouraged to meet with a counselor early on and refer to the catalog of the prospective transfer institution to determine specific major requirements required for transfer since they can vary from university to university. Finally, because this program is a high-unit major, counselors can also assist in determining appropriate general education courses to complete the degree requirements. If interested in transferring to a CSU or other university not in the UC system as an Mechanical Engineering major, please see the Associates of Science in Civil/Mechanical Engineering.

Career Opportunities

This program provides a solid foundation for those who want to continue their education and earn a bachelors degree in mechanical engineering which is generally required for entry level mechanical engineering jobs. This program also prepares students for entry level jobs to design, develop, build and test mechanical tools, engines and a wide variety of other equipment. They can work in almost any industry using tools such as Computer Aided Design (CAD) to design everything from a robot used in automotive manufacturing to a more efficient jet engine.

Program Outcomes

- Upon completion of the AS in Mechanical Engineering UC Pathway, students are able to apply fundamental principles from mathematics, science and engineering to solve a mechanical engineering-related problem.
- Upon completion of the AS in Mechanical Engineering UC Pathway, students are able to set up appropriate laboratory equipment, collect and analyze mechanical engineering data, draw conclusions, and clearly communicate results.
- Upon completion of the AS in Mechanical Engineering UC Pathway, students are able to use a variety of technological tools to solve mechanical engineering problems.

Required Core: (63 Units)

CHEM 1A (General College Chemistry I).....	5
CHEM 1B (General College Chemistry II).....	5
CS 1 (Computing Fundamentals I)	4
ENGR 1 (Introduction to Engineering)	2
ENGR 23 (Engineering Graphics)	3
ENGR 35 (Statics).....	3
ENGR 44 (Introduction to Circuit Analysis)	4
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II)	5
MATH 3 (Multivariable Calculus).....	5
MATH 5 (Ordinary Differential Equations).....	3.5
MATH 7 (Elementary Linear Algebra)	3.5
PHYS 1A (General Physics I)	5
PHYS 1B (General Physics II)	5
PHYS 1C (General Physics III).....	5

Program-Based GE[^]: Select One (3 Units)

CMST 1 (Fundamentals of Public Speaking)	3
CMST 10 (Interpersonal Communication).....	3

Total Units for the Major 63

^ Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Software Engineering

About the Degree

The Associates of Science in Software Engineering is offered to prepare students to transfer to a four-year institution as a Software engineering major. The core courses required for this degree will fulfill many of the lower division requirements for most campuses in the UC and CSU systems. This program will enable students to develop a strong foundational understanding in computing, engineering, physics and mathematics that will be essential as they continue on the engineering pathway. In addition, students will benefit from hands-on computing and laboratory experiences in their courses allowing them to learn by doing. The LPC Software Engineering degree is intended for transfer. Students are encouraged to meet with a counselor early on and refer to the catalog of the prospective transfer institution to determine specific major requirements required for transfer since they can vary from university to university. Finally, because this program is a high-unit major, counselors can also assist in determining appropriate general education courses to complete the degree requirements.

Career Opportunities

Preparation for entry level jobs in Software Engineering generally requires a bachelor's degree. Software Engineering is a blend of the computer science and engineering disciplines. Software engineers design, build, and maintain software systems and application software that are reliable, affordable and meet customer requirements. Software engineers can develop antivirus programs, mobile applications, computer gaming, and inventory management platforms.

Program Outcomes

- Upon completion of the AS in Software Engineering, students are able to apply fundamental principles from mathematics, science and engineering to solve a software engineering-related problem.
- Upon completion of the AS in Software Engineering, students

are able to set up appropriate laboratory equipment, collect and analyze software data, draw conclusions, and clearly communicate results.

- Upon completion of the AS in Software Engineering, students are able to use a variety of technological tools to solve software engineering problems.

Required Core: (48.5 Units)

CS 2 (Computing Fundamentals II).....	4
CS 17 (Discrete Mathematical Structures) or MATH 10 (Discrete Mathematical Structures).....	4
ENGR 1 (Introduction to Engineering).....	2
ENGR 26 (Computational Methods for Engineers and Scientists) ...	3
ENGR 35 (Statics).....	3
ENGR 44 (Introduction to Circuit Analysis).....	4
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II).....	5
MATH 3 (Multivariable Calculus).....	5
MATH 5 (Ordinary Differential Equations).....	3.5
PHYS 1A (General Physics I).....	5
PHYS 1C (General Physics III).....	5

Program-Based GE^: Select One (3 Units)

CMST 1 (Fundamentals of Public Speaking).....	3
CMST 10 (Interpersonal Communication).....	3

Total Units for the Major 48.5

^ Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

**Certificate of Achievement
Civil/Mechanical Engineering**

About the Degree

The Certificate of Achievement in Civil/Mechanical Engineering is offered to prepare students to transfer to a four-year institution as a Civil or Mechanical engineering major. The core courses required for this degree will fulfill many of the lower division requirements for most campuses in the UC and CSU systems. This program will enable students to develop a strong foundational understanding in engineering, physics and mathematics that will be essential as they

continue on the engineering pathway. In addition, students will benefit from hands-on laboratory experiences in their engineering and science courses allowing them to learn by doing. The LPC Civil/Mechanical Engineering certificate is intended for transfer. Students are encouraged to meet with a counselor early on and refer to the catalog of the prospective transfer institution to determine specific major requirements required for transfer since they can vary from university to university.

Career Opportunities

Preparation for entry level jobs in Civil and Mechanical Engineering generally require a bachelor's degree in the respective discipline. Civil Engineers design, construct, manage and maintain facilities essential to modern life including buildings, highways, transit hubs, and water systems. They can also work in the construction, environmental and geotechnical industries. Civil Engineers are often employed by local municipalities, consulting firms or large scale construction companies. Mechanical Engineers design, develop, build and test mechanical tools, engines and a wide variety of other equipment. They can work in almost any industry using tools such as Computer Aided Design (CAD) to design everything from a robot used in automotive manufacturing to a more efficient jet engine.

Program Outcomes

- Upon completion of the Certificate of Achievement in Civil/Mechanical Engineering, students are able to apply fundamental principles from mathematics, science and engineering to solve an civil/mechanical engineering-related problem.
- Upon completion of the Certificate of Achievement in Civil/Mechanical Engineering, students are able to set up appropriate laboratory equipment, collect and analyze civil/mechanical data, draw conclusions, and clearly communicate results.
- Upon completion of the Certificate of Achievement in Civil/Mechanical Engineering, students are able to use a variety of technological tools to solve civil/mechanical engineering problems.

Required Core: (52.5 Units)

CHEM 1A (General College Chemistry I).....	5
ENGR 1 (Introduction to Engineering).....	2
ENGR 23 (Engineering Graphics)	3
ENGR 26 (Computational Methods for Engineers and Scientists) ...	3
ENGR 35 (Statics).....	3
ENGR 44 (Introduction to Circuit Analysis).....	4
ENGR 46 (Materials of Engineering).....	4
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II)	5
MATH 3 (Multivariable Calculus).....	5
MATH 5 (Ordinary Differential Equations).....	3.5
PHYS 1A (General Physics I)	5
PHYS 1C (General Physics III).....	5

Total Units 52.5

Certificate of Achievement Electrical Engineering

About the Degree

The Certificate of Achievement in Electrical Engineering is offered to prepare students to transfer to a California State University or other university (with the exception of University of California) as an Electrical Engineering major. This program will enable students to develop a strong foundational understanding in engineering, physics and mathematics that will be essential as they continue on the engineering pathway. In addition, students will benefit from hands-on laboratory experiences in their engineering and science courses allowing them to learn by doing. The LPC Electrical Engineering certificate is intended for transfer to a CSU or other non-UC university. Students are encouraged to meet with a counselor early on and refer to the catalog of the prospective transfer institution to determine specific major requirements required for transfer since they can vary from university to university. If interested in transferring to a UC as an Electrical Engineering major, please see the Associates of Science or Certificate of Achievement in Electrical Engineering UC Pathway.

Career Opportunities

This program provides a solid foundation for those who want to continue their education and earn a bachelors degree in electrical or electronic engineering which is generally required for entry level electrical/electronic engineering jobs. This program also prepares students for entry level jobs installing, repairing and maintaining electrical and electronic equipment in numerous different industry sectors. These industry sectors may include the auto industry, aerospace industry, airline industry, commercial contracting, construction and others.

Program Outcomes

- Upon completion of the Certificate of Achievement in Electrical Engineering, students are able to apply fundamental principles from mathematics, science and engineering to solve an electrical engineering-related problem.
- Upon completion of the Certificate of Achievement in Electrical Engineering, students are able to set up appropriate laboratory equipment, collect and analyze electrical data, draw conclusions, and clearly communicate results.
- Upon completion of the Certificate of Achievement in Electrical Engineering, students are able to use a variety of technological tools to solve electrical engineering problems.

Required Core: (42.5 Units)

CHEM 1A (General College Chemistry I).....	5
ENGR 1 (Introduction to Engineering).....	2
ENGR 26 (Computational Methods for Engineers and Scientists) ...	3
ENGR 44 (Introduction to Circuit Analysis).....	4
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II)	5
MATH 3 (Multivariable Calculus).....	5
MATH 5 (Ordinary Differential Equations).....	3.5
PHYS 1A (General Physics I)	5
PHYS 1C (General Physics III).....	5

Total Units 42.5

Certificate of Achievement Electrical Engineering UC Pathway

About the Degree

The Certificate of Achievement in Electrical Engineering UC Pathway is offered to prepare students to transfer a school in the University of California system as an Electrical Engineering major. This program will enable students to develop a strong foundational understanding in engineering, physics and mathematics that will be essential as they continue on the engineering pathway. In addition, students will benefit from hands-on laboratory experiences in their engineering and science courses allowing them to learn by doing. The LPC Electrical Engineering UC Pathway degree is intended for transfer to the University of California system. Students are encouraged to meet with a counselor early on and refer to the catalog of the prospective transfer institution to determine specific major requirements required for transfer since they can vary from university to university. If interested in transferring to a CSU or other university not in the UC system as an Electrical Engineering major, please see the Associates of Science or Certificate of Achievement in Electrical Engineering.

Career Opportunities

This program provides a solid foundation for those who want to continue their education and earn a bachelors degree in electrical or electronic engineering which is generally required for entry level electrical/electronic engineering jobs. This program also prepares students for entry level jobs installing, repairing and maintaining electrical and electronic equipment in numerous different industry sectors. These industry sectors may include the auto industry, aerospace industry, airline industry, commercial contracting, construction and others.

Program Outcomes

- Upon completion of the Certificate of Achievement in Electrical Engineering UC Pathway, students are able to apply fundamental principles from mathematics, science and engineering to solve an electrical engineering-related problem.
- Upon completion of the Certificate of Achievement in Electrical Engineering UC Pathway, students are able to set up appropriate laboratory equipment, collect and analyze electrical data, draw conclusions, and clearly communicate results.
- Upon completion of the Certificate of Achievement in Electrical Engineering UC Pathway, students are able to use a variety of technological tools to solve electrical engineering problems.

Required Core: (53 Units)

CHEM 1A (General College Chemistry I).....	5
CS 1 (Computing Fundamentals I).....	4
ENGR 44 (Introduction to Circuit Analysis).....	4
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II).....	5
MATH 3 (Multivariable Calculus).....	5
MATH 5 (Ordinary Differential Equations).....	3.5
MATH 7 (Elementary Linear Algebra).....	3.5

PHYS 1A (General Physics I).....	5
PHYS 1B (General Physics II).....	5
PHYS 1C (General Physics III).....	5
PHYS 1D (General Physics IV).....	3

Total Units 53

Certificate of Achievement Engineering

About the Degree

The Certificate of Achievement in Engineering is offered to prepare students to transfer to a four-year institution as an engineering major. The core courses required for this certificate will fulfill many of the lower division requirements for most campuses in the UC and CSU systems. This program will enable students to develop a strong foundational understanding in engineering, physics and mathematics that will be essential as they continue on the engineering pathway. In addition, students will benefit from hands-on laboratory experiences in their engineering and science courses allowing them to learn by doing. The LPC Engineering certificate is intended for transfer, but some students may be able to obtain employment as an engineering technician or engineering technologist. Students are encouraged to meet with a counselor early on and refer to the catalog of the prospective transfer institution to determine specific major requirements required for transfer since they can vary from university to university.

Career Opportunities

Preparation for entry level jobs in Engineering generally requires a bachelor's degree in a specific engineering discipline. Engineering disciplines, or branches, include Aeronautical, Biomedical, Chemical, Civil, Computer, Electrical, Industrial, Manufacturing, and Mechanical Engineering. Engineering is an exciting, challenging and dynamic industry. Engineers use both scientific and mathematical principles to solve real world problems and to improve the lives of people around the globe. They can design everything from satellites that are used for global positioning systems (GPS) to biomedical devices such as stents and prosthetics, to more efficient processes to manufacture all-purpose household cleaner, and so much more.

Program Outcomes

- Upon completion of the Certificate of Achievement in Engineering, students are able to apply fundamental principles from mathematics, science and engineering to solve an engineering-related problem.
- Upon completion of the Certificate of Achievement in Engineering, students are able to set up appropriate laboratory equipment, collect and analyze data, draw conclusions, and clearly communicate results.
- Upon completion of the Certificate of Achievement in Engineering, students are able to use a variety of technological tools to solve engineering problems.

Required Core: (33.5 Units)

MATH 1 (Calculus I).....	5
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MATH 2 (Calculus II)	5
MATH 3 (Multivariable Calculus).....	5
MATH 5 (Ordinary Differential Equations).....	3.5
PHYS 1A (General Physics I)	5
PHYS 1B (General Physics II)	5
PHYS 1C (General Physics III).....	5

List A: Select Four (13-14 Units)

ENGR 23 (Engineering Graphics)	3
ENGR 26 (Computational Methods for Engineers and Scientists) ...	3
ENGR 35 (Statics).....	3
ENGR 44 (Introduction to Circuit Analysis).....	4
ENGR 46 (Materials of Engineering).....	4

List B: Select Two (5-9 Units)

CHEM 1A (General College Chemistry I).....	5
CS 1 (Computing Fundamentals I).....	4
ENGR 1 (Introduction to Engineering).....	2
MATH 7 (Elementary Linear Algebra).....	3.5
PHYS 1D (General Physics IV).....	3

Total Units 51.5-56.5

**Certificate of Achievement
Engineering Technology**

About the Degree

The Certificate of Achievement in Engineering Technology program at Las Positas College is designed for those who want a hands-on engineering career with a focus on mechanical technology in an applied setting. The emphasis is on Mechanical Engineering applications and developing an understanding of how engineering, technology and manufacturing principles are applied in practice. The program provides students with foundational knowledge in mathematics, critical thinking, problem solving, and engineering design, as well as skills in manufacturing, fabrication, and welding so that students are able to adapt to the ever-changing modern industrial workplace. Students may also choose to continue their education towards a degree in a related engineering discipline.

Career Opportunities

Graduates of the program may find employment as mechanical technicians, mechanical technologists, stationary engineers, or in other applied engineering fields and may collaborate with scientists, engineers, designers, and manufacturing professionals.

Program Outcomes

- Upon completion of the Certificate of Achievement in Engineering Technology, students are able to apply fundamental principles from mathematics, science and engineering to solve an engineering technology-related problem.
- Upon completion of the Certificate of Achievement in Engineering Technology, students are able to set up appropriate laboratory equipment, collect and analyze data, draw conclusions, and clearly communicate results.
- Upon completion of the Certificate of Achievement in

Engineering Technology, students are able to use a variety of technological tools to solve engineering technology problems.

Required Core: (27 Units)

ENGR 1 (Introduction to Engineering).....	2
ENGR 23 (Engineering Graphics)	3
ENGR 37 (Applied Statics and Materials).....	3
MATH 39 (Trigonometry).....	4
MATH 30 (College Algebra for STEM)	4
PHYS 10 (Descriptive Physics).....	3
PHYS 10L (Descriptive Physics Lab).....	1
WLDT 10 (Machining for the Metal Trades)	4
WLDT 62A (Beginning GTAW and GMAW Theory)	1
WLDT 62AL (Beginning GTAW and GMAW Skills Lab)	2

List A: Select One Group (4 Units)

Group 1

ENGR 50 (Introduction to Electronic Systems and Measurements) .	4
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Group 2

WLDT 63 (Welding Layout and Fitting).....	2
WLDT 79 (Manufacturing Processes)	2

List B: Select One (3 Units)

WRKX 94 (Occupational Work Experience/Internship)	3
WRKX 95 (General Work Experience)	3

Total Units 34

**Certificate of Achievement
Mechanical Engineering UC Pathway**

About the Degree

The Certificate of Achievement in Mechanical Engineering UC Pathway degree is offered to prepare students to transfer a school in the University of California system as a Mechanical Engineering major. This program will enable students to develop a strong foundational understanding in engineering, physics and mathematics that will be essential as they continue on the engineering pathway. In addition, students will benefit from hands-on laboratory experiences in their engineering and science courses allowing them to learn by doing. The LPC Mechanical Engineering certificate is intended for transfer to the University of California system. Students are encouraged to meet with a counselor early on and refer to the catalog of the prospective transfer institution to determine specific major requirements required for transfer since they can vary from university to university. Finally, because this program is a high-unit major, counselors can also assist in determining appropriate general education courses to complete the degree requirements. If interested in transferring to a CSU or other university not in the UC system as an Mechanical Engineering major, please see the Associates of Science or Certificate of Achievement in Civil/Mechanical Engineering.

Career Opportunities

This program provides a solid foundation for those who want to continue their education and earn a bachelors degree in mechanical

engineering which is generally required for entry level mechanical engineering jobs. This program also prepares students for entry level jobs to design, develop, build and test mechanical tools, engines and a wide variety of other equipment. They can work in almost any industry using tools such as Computer Aided Design (CAD) to design everything from a robot used in automotive manufacturing to a more efficient jet engine.

Program Outcomes

- Upon completion of the Certificate of Achievement in Mechanical Engineering UC Pathway, students are able to apply fundamental principles from mathematics, science and engineering to solve a mechanical engineering-related problem.
- Upon completion of the Certificate of Achievement in Mechanical Engineering UC Pathway, students are able to set up appropriate laboratory equipment, collect and analyze mechanical engineering data, draw conclusions, and clearly communicate results.
- Upon completion of the Certificate of Achievement in Mechanical Engineering UC Pathway, students are able to use a variety of technological tools to solve mechanical engineering problems.

Required Core: (63 Units)

CHEM 1A (General College Chemistry I).....	5
CHEM 1B (General College Chemistry II).....	5
CS 1 (Computing Fundamentals I)	4
ENGR 1 (Introduction to Engineering).....	2
ENGR 23 (Engineering Graphics)	3
ENGR 35 (Statics).....	3
ENGR 44 (Introduction to Circuit Analysis)	4
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II)	5
MATH 3 (Multivariable Calculus).....	5
MATH 5 (Ordinary Differential Equations).....	3.5
MATH 7 (Elementary Linear Algebra)	3.5
PHYS 1A (General Physics I)	5
PHYS 1B (General Physics II)	5
PHYS 1C (General Physics III).....	5

Total Units 63

Certificate of Achievement Software Engineering

About the Degree

The Certificate of Achievement in Software Engineering is offered to prepare students to transfer to a four-year institution as a Software engineering major. The core courses required for this degree will fulfill many of the lower division requirements for most campuses in the UC and CSU systems. This program will enable students to develop a strong foundational understanding in computing, engineering, physics and mathematics that will be essential as they continue on the engineering pathway. In addition, students will benefit from hands-on computing and laboratory experiences in their courses allowing them to learn by doing. The LPC Software

Engineering certificate is intended for transfer. Students are encouraged to meet with a counselor early on and refer to the catalog of the prospective transfer institution to determine specific major requirements required for transfer since they can vary from university to university.

Career Opportunities

Preparation for entry level jobs in Software Engineering generally requires a bachelor's degree. Software Engineering is a blend of the computer science and engineering disciplines. Software engineers design, build, and maintain software systems and application software that are reliable, affordable and meet customer requirements. Software engineers can develop antivirus programs, mobile applications, computer gaming, and inventory management platforms.

Program Outcomes

- Upon completion of the Certificate of Achievement in Software Engineering, students are able to apply fundamental principles from mathematics, science and engineering to solve a software engineering-related problem.
- Upon completion of the Certificate of Achievement in Software Engineering, students are able to set up appropriate laboratory equipment, collect and analyze software data, draw conclusions, and clearly communicate results.
- Upon completion of the Certificate of Achievement in Software Engineering, students are able to use a variety of technological tools to solve software engineering problems.

Required Core: (48.5 Units)

CS 2 (Computing Fundamentals II).....	4
CS 17 (Discrete Mathematical Structures) or MATH 10 (Discrete Mathematical Structures).....	4
ENGR 1 (Introduction to Engineering)	2
ENGR 26 (Computational Methods for Engineers and Scientists) ...	3
ENGR 35 (Statics)	3
ENGR 44 (Introduction to Circuit Analysis)	4
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II)	5
MATH 3 (Multivariable Calculus).....	5
MATH 5 (Ordinary Differential Equations).....	3.5
PHYS 1A (General Physics I)	5
PHYS 1C (General Physics III).....	5

Total Units 48.5

Engineering Courses (ENGR)

ENGR 1 INTRODUCTION TO ENGINEERING 2 UNITS

Introduction to careers, activities, and topics related to the field of engineering, including computer applications to design and problem solving. Strongly Recommended: Eligibility for ENG 1A/1AEX with a minimum grade of C. 36 hours lecture. Transfer: CSU, UC; C-ID# ENGR 110.

Degree Applicable, Credit Grading Option: OP

ENGR 23 ENGINEERING GRAPHICS 3 UNITS

Introduction to the engineering-design process, and to technical graphic communications tools used by engineers. Conceptual design of products. Development of spatial reasoning skills. Orthographic and axonometric projection-drawing techniques. Tolerance analysis for fabrication. Documentation of designs through engineering working drawings. Use SolidWorks Computer-Assisted Drawing software as a design tool. Basic CAD 3-Dimensional solid-modeling. Strongly Recommended: MATH 39 with a minimum grade of C, ENG 1A with a minimum grade of C or ENG 1AEX with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

ENGR 26 COMPUTATIONAL METHODS FOR ENGINEERS AND SCIENTISTS 3 UNITS

Methodology and techniques for solving engineering/science problems using numerical-analysis computer-application programs MATLAB and EXCEL. Technical computing and visualization using MATLAB software. Examples and applications from applied-mathematics, physical-mechanics, electrical circuits, biology, thermal systems, fluid systems, and other branches of science and engineering. Prerequisite: MATH 1 with a minimum grade of C. Strongly Recommended: CS 7 with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

ENGR 35 STATICS 3 UNITS

A first course in engineering mechanics: properties of forces, moments, couples and resultants; two- and three-dimensional force systems acting on engineering structures in equilibrium; analysis of trusses, and beams; distributed forces, shear and bending moment diagrams, center of gravity, centroids, friction, and area and mass moments of inertia. Optional additional topics include fluid statics and cables. Prerequisite: PHYS 1A with a minimum grade of C, MATH 2 with a minimum grade of C. Strongly Recommended: ENGR 22 with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU, UC; C-ID# ENGR 130.

Degree Applicable, Credit Grading Option: GR

ENGR 37 APPLIED STATICS AND MATERIALS 3 UNITS

Applied statics, mechanics of materials, and materials science. Topics include stress, strain, types of forces, moments, moment of inertia, friction, truss structures, centers of gravity, modulus of elasticity, fasteners, chemistry and atomic structure, crystalline structures, phase diagrams. This course is designed for Engineering Technology majors; it is not intended for students pursuing the Engineering Requirements (Transfer Preparation) path. Prerequisite: MATH 39 with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

ENGR 44 INTRODUCTION TO CIRCUIT ANALYSIS 4 UNITS

Introduction to analysis methods for electrical circuits. Topics include general techniques for circuit analysis, simple resistive circuits,

inductors, capacitors, mutual coupling, operational amplifier circuits, transient and steady-state analysis of first-order and second-order circuits. Lab topics include introduction to the use of electronic test equipment, designing, assembling, testing and simulating various resistive, LC, RC and operational amplifier circuits. Simulations are done with available circuit simulations codes such as PSpice. Prerequisite: PHYS 1A with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

ENGR 46 MATERIALS OF ENGINEERING 4 UNITS

Application of principles of chemistry and physics to the properties of engineering materials; the relation of microstructure to mechanical, electrical, thermal and corrosion properties of metals; ceramics and polymers. Prerequisite: PHYS 1A with a minimum grade of C, CHEM 1A with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Transfer: CSU, UC; C-ID# ENGR 140B.

Degree Applicable, Credit Grading Option: GR

ENGR 50 INTRODUCTION TO ELECTRONIC SYSTEMS AND MEASUREMENTS 4 UNITS

Introduction to electrical and electronic systems and circuits. Overview of digital and analog electronics, semiconductor devices and software tools. Direct current and alternating current circuit analysis including Ohm's law and Kirchhoff's laws. Measurement and characterization of electronic systems, data collection, and reporting results. Comparing system and component performance to published specifications and developing troubleshooting techniques. Laboratory practice includes operation and proper use of standard test instruments. Prerequisite: MATH 39 with a minimum grade of C. 36 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

ENGLISH

The English program is designed to help students become more effective writers, readers, researchers, and critical thinkers. In our classes, students will engage with texts about diverse, provocative, and universal themes. They will read dramatic narratives, topical articles, inspirational verse, and literature about the human condition. They will have the opportunity to think deeply about their own personal views and the views of others and express thoughtful and original ideas through clear, coherent essays. They will refine their understanding of academic honesty not just to avoid plagiarism but to enter into dialogue with other writers and academics. The English department is committed to familiarizing students with different genres of writing, whether as readers or creative writers, and with writers from a variety of cultural traditions and historical eras. Students will leave our program with the reading and writing skills to succeed across the curriculum, to thrive in their places of employment, to enrich their own lives, and to participate more thoughtfully in our communities and our world.

Students may decide to take the English 104 prerequisite course listed on English 1A and 1AEX, but it is not required. All students must complete the Guided Self-Placement to determine which English class to take. For more information please see <http://www.laspositascollege.edu/assessmentcenter/guided-self-placement.php>

Programs of Study

Degrees:

- AA-T – English
- AA – English

Certificates of Achievement:

- Creative Writing

Career Opportunities

The coursework in English prepares students for the critical reading and writing necessary in a variety of fields, with further study, such as law, education, publishing, business, government, information architecture, writing, nonprofit development and fundraising, and many more. Research and feedback from San Francisco Bay Area employers shows that employees who can write well and think clearly are a valued commodity in the workforce.

AA-T – English

About the Degree

The Associate in Arts in English for Transfer (AA-T) provides major preparation in English through an introduction to English composition, critical thinking, literature, and creative writing. Like the Associate in Arts in English (AA), the coursework will prepare students for the critical reading and writing necessary in

a variety of fields. However, the intent of the Associate in Arts in English for Transfer (AA-T) is to assist students in transferring into the California State University System. Students completing the Associate in Arts in English for Transfer (AA-T) degree receive a guarantee of admission with junior status into the California State University System. CSU is required to grant priority admission for a student with this associate degree to their [CSU] campus and to a program or major that is similar to their community college major or area of emphasis, as determined by the [CSU] campus to which the student is admitted." As such, the courses required for the Associate in Arts in English for Transfer (AA-T) are more narrowly focused on English courses and preparation for the English Baccalaureate degree whereas the courses allowed for the Associate in Arts in English (AA) cover a broader, interdisciplinary range and provide more general preparation in reading, writing, critical thinking, humanities, and creative expression.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AA-T in English, students are able to analyze an author's use of literary techniques to develop a theme.
- Upon completion of the AA-T in English, students are able to identify and evaluate implied arguments in college-level literary texts.
- Upon completion of the AA-T in English, students are able to recognize, appreciate, and compare the similarities and differences between authors, characters and self that stem from historical era and cultural tradition.
- Upon completion of the AA-T in English, students are able to use grammar, vocabulary, and style appropriate for academic essays.
- Upon completion of the AA-T in English, students are able to write a research paper using credible sources and correct documentation.
- Upon completion of the AA-T in English, students are able to write an academic essay synthesizing multiple texts and using logic to support a thesis.

Required Core: (6 Units)

ENG 4 (Critical Thinking and Writing about Literature)	3
ENG 7 (Critical Thinking and Writing Across Disciplines)	3

List A: (6 Units)

ENG 35 (Modern American Literature)	3
ENG 41 (Modern World Literature)	3

List B: Select One (3 Units)

ENG 11 (Introduction to Creative Writing).....	3
ENG 20 (Studies in Shakespeare).....	3
ENG 32 (U.S. Women’s Literature).....	3
ENG 44 (Literature of the American West)	3
ENG 45 (Studies in Fiction)	3

List C: Select One (3 Units)

Any List B course not already used.....	3
ENG 12A (Craft of Writing Fiction)	3
ENG 12B (Craft of Writing Fiction: Intermediate)	3
ENG 12C (Craft of Writing Fiction: Advanced)	3
ENG 13A (The Craft of Writing Poetry: Beginning)	3
ENG 13B (The Craft of Writing Poetry: Intermediate).....	3
ENG 19A (Journal of Arts, Literature, and Academic Writing A) or JAMS 19A (Journal of Arts, Literature, and Academic Writing A)	3
ENG 19B (Journal of Arts, Literature, and Academic Writing B) or JAMS 19B (Journal of Arts, Literature, and Academic Writing B)	3
ENG 42 (Literature of the African Diaspora in America)	3

Total Units for the Major 18

Additional General Education and Elective Units 42

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AA – English

About the Degree

The Associate of Arts in English degree (AA) provides major preparation in English through an introduction to English composition, critical thinking, literature, and creative writing. Please note that the English AA does not guarantee admission to CSU as the English AA-T does. However, like the Associate in Arts in English for Transfer (AA-T), the coursework will prepare students for the critical reading and writing necessary in a variety of fields. The intent of the Associate in Arts in English (AA) is additionally to provide students with an enriched background in a broader, interdisciplinary range of courses that provides more general preparation in reading, writing, critical thinking, humanities, and creative expression. Students may take elective courses in fields as varied as English as a Second Language, French, Humanities, Mass Communications, Spanish, Speech, and Theater Arts. If the student prefers this broader range of preparation to that of the Associate in Arts in English for Transfer

(AA-T) enter the English major at the transfer university of his or her choice, it is essential that the student also refer to the catalog of the prospective transfer institution and consult a counselor. If a student plans to attend the University of California, the AA in English may meet the student's needs just as well. Students should speak to a counselor about their options.

Program Outcomes

- Upon completion of the AA in English, students are able to analyze an author's use of literary techniques to develop a theme.
- Upon completion of the AA in English, students are able to identify and evaluate implied arguments in college-level literary texts.
- Upon completion of the AA in English, students are able to recognize, appreciate, and compare the similarities and differences between authors, characters and self that stem from historical era and cultural tradition.
- Upon completion of the AA in English, students are able to use grammar, vocabulary and style appropriate for academic essays.
- Upon completion of the AA in English, students are able to write a research paper using credible sources and correct documentation.
- Upon completion of the AA in English, students are able to write an academic essay synthesizing multiple texts and using logic to support a thesis.

Required Core: (15-16 Units)

ENG 1A (Critical Reading and Composition) or ENG 1AEX (Critical Reading and Composition Expanded) 3-4	
ENG 4 (Critical Thinking and Writing about Literature)	3
ENG 7 (Critical Thinking and Writing Across Disciplines)	3
ENG 35 (Modern American Literature)	3
ENG 41 (Modern World Literature)	3

List A: Select Two (6-12 Units)

CMST 5 (Readers Theater).....	3
ENG 11 (Introduction to Creative Writing).....	3
ENG 12A (Craft of Writing Fiction).....	3
ENG 12B (Craft of Writing Fiction: Intermediate)	3
ENG 13A (The Craft of Writing Poetry: Beginning)	3
ENG 13B (The Craft of Writing Poetry: Intermediate).....	3
ENG 19A (Journal of Arts, Literature, and Academic Writing A) or JAMS 19A (Journal of Arts, Literature, and Academic Writing A)	3
ENG 19B (Journal of Arts, Literature, and Academic Writing B) or JAMS 19B (Journal of Arts, Literature, and Academic Writing B)	3
ENG 20 (Studies in Shakespeare).....	3
ENG 32 (U.S. Women's Literature).....	3
ENG 42 (Literature of the African Diaspora in America)	3
ENG 44 (Literature of the American West)	3
ENG 45 (Studies in Fiction)	3
ESL 24 (Advanced Reading and Composition I).....	6
ESL 25 (Advanced Reading and Composition II)	6
ESL 26 (Advanced Editing).....	3
HUMN 28 (World Mythology)	3
JAMS 11 (Introduction to Reporting and Newswriting).....	3

THEA 4 (Modern American Theater)3
 THEA 11 (Stage to Screen)3
 THEA 14 (Bay Area Theater)3

Total Units for the Major 21-28

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

**Certificate of Achievement
Creative Writing**

About the Degree

Stories and poems connect to the deepest parts of the human experience--our psychology, our relationships, our history, and our dreams. Learn how to craft writing that effectively expresses those experiences and communicates them to others. During the Certificate of Creative Writing sequence of study, students will write and workshop their own original work. They will also read and analyze the craft of published literature from diverse authors, study and apply the elements of fiction and/or poetry, and learn about the publication submission process. Students will also gain experience as editors on our college literary journal or magazine, selecting the content and working on the production and design process. Upon completion, students with this certificate will meet some lower division creative writing requirements for English bachelor's degrees at most colleges with an emphasis or minor in creative writing. This certificate can be earned at the same time as getting the AA-T in English without adding any additional units. (Work closely with a counselor to select your courses.)

Career Opportunities

- Advertising Copy Writer • Author/Critic • Bookstore Manager • Continuity Writer • Corporate Communications Director • Foreign Service Office • Freelance Journalist/Writer • Greeting Card Editor/Writer • Lawyer • Librarian • Media Specialist • Newspaper Reporter • Public Information Officer • Publication Editor • Publicity Director • Publishing Agent • Radio/TV Agent • Script Writer • Teacher/Professor • Writer

Program Outcomes

- Upon completion of the Certificate of Achievement in Creative Writing, students are able to write and revise fiction and/or poetry, demonstrating proficiency with the elements of fiction and/or poetry.

- Upon completion of the Certificate of Achievement in Creative Writing, students are able to evaluate and critique works of fiction and/or poetry.
- Upon completion of the Certificate of Achievement in Creative Writing, students are able to analyze and write about a diverse body of published literature.
- Upon completion of the Certificate of Achievement in Creative Writing, students are able to perform entry-level editorial tasks on a magazine, journal, or newspaper.

Required Core: Select Two (6 Units)

ENG 11 (Introduction to Creative Writing).....3
 ENG 12A (Craft of Writing Fiction)3
 ENG 12B (Craft of Writing Fiction: Intermediate)3
 ENG 13A (The Craft of Writing Poetry: Beginning)3
 ENG 13B (The Craft of Writing Poetry: Intermediate)3

List A: Select One (3 Units)

ENG 19A (Journal of Arts, Literature, and Academic Writing A)3
 JAMS 11 (Introduction to Reporting and Newswriting).....3
 JAMS 19A (Journal of Arts, Literature, and Academic Writing A) ...3
 JAMS 24A (Naked Magazine: College Magazine A).....3

List B: Select Three (9 Units)

Any Required Core course not already used
 ENG 4 (Critical Thinking and Writing about Literature)3
 ENG 12C (Craft of Writing Fiction: Advanced)3
 ENG 19B (Journal of Arts, Literature, and Academic Writing B) or
 JAMS 19B (Journal of Arts, Literature,
 and Academic Writing B)3
 ENG 20 (Studies in Shakespeare).....3
 ENG 32 (U.S. Women's Literature).....3
 ENG 35 (Modern American Literature).....3
 ENG 41 (Modern World Literature)3
 ENG 42 (Literature of the African Diaspora in America)3
 ENG 44 (Literature of the American West)3
 ENG 45 (Studies in Fiction) 3

Total Units 18

English Courses (ENG)

ENG 1A CRITICAL READING AND COMPOSITION 3 UNITS

Integrated approach to reading, writing, and critical thinking intended to develop ability to read and write complex, college-level prose. Examination of ideas in relation to individual's worldview and contexts from which these ideas arise. Some research required. Prerequisite: ENG 104 with a minimum grade of P or NENG 204 with a minimum grade of P or ESL 25 with a minimum grade of C. 54 hours lecture, 18 hours laboratory. AA/AS GE: IA. Transfer: CSU, UC*; CSU GE: A2; IGETC: 1A; C-ID# ENGL 100. *ENG 1A and ENG 1AEX combined: maximum credit, 3 units.

Degree Applicable, Credit Grading Option: GR

ENG 1AEX CRITICAL READING AND COMPOSITION EXPANDED 4 UNITS

Integrated approach to reading, writing, and critical thinking intended to develop ability to read and write complex, college-level prose. Examination of ideas in relation to individual's worldview and contexts from which these ideas arise. Some research required. Integrated approach to reading, writing, and critical thinking intended to develop ability to read and write complex, college-level prose. English 1AEX provides students with an extra unit of lab to support students in reading and writing complex, college-level prose. Students who have completed, or are enrolled in, ENG 1A may not receive credit. Prerequisite: ENG 104 with a minimum grade of P or ESL 25 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. AA/AS GE: IA. Transfer: CSU, UC*; CSU GE: A2; IGETC: 1A; C-ID# ENGL 100. *ENG 1A and ENG 1AEX combined: maximum credit, 3 units.

Degree Applicable, Credit Grading Option: GR

ENG 4 CRITICAL THINKING AND WRITING ABOUT LITERATURE 3 UNITS

Develops critical thinking, reading, and writing skills as they apply to the analysis of fiction, poetry and drama; literary criticism; and related non-fiction from diverse cultural sources and perspectives. Emphasis on the techniques and principles of effective written argument as they apply to literature. Some research required. Prerequisite: ENG 1A with a minimum grade of C or ENG 1AEX with a minimum grade of C. 54 hours lecture. AA/AS GE: IC, III. Transfer: CSU, UC; CSU GE: A3, C2; IGETC: 1B, 3B; C-ID# ENGL 120.

Degree Applicable, Credit Grading Option: GR

ENG 7 CRITICAL THINKING AND WRITING ACROSS DISCIPLINES 3 UNITS

Develops critical thinking, reading and writing skills as they apply to the textual analysis of primary and secondary book-length works from a range of academic and cultural contexts. Emphasis on the techniques and principles of effective written argument in research-based writing across disciplines. Prerequisite: ENG 1A with a minimum grade of C or ENG 1AEX with a minimum grade of C. 54 hours lecture. AA/AS GE: IC, III. Transfer: CSU, UC; CSU GE: A3, C2; IGETC: 1B, 3B; C-ID# ENGL 105.

Degree Applicable, Credit Grading Option: GR

ENG 11 INTRODUCTION TO CREATIVE WRITING 3 UNITS

Introduction to elements and craft of various genres of creative writing, including narrative, verse, and dialogue, using materials drawn from individual's own work and selected texts from established and peer writers. Practice in writing in various genres. Introduction to workshop method. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: III. Transfer: CSU; CSU GE: C2; C-ID# ENGL 200.

Degree Applicable, Credit Grading Option: OP

ENG 12A CRAFT OF WRITING FICTION 3 UNITS

Practice in writing fiction. Developing internal and external sources for stories and novels; biographical sources, characterization, plot, points-of-view, narrative techniques; analysis and criticism of published writing and individual's own work. Strongly Recommended: ENG 11 with a minimum grade of C, Eligibility for

ENG 1A. 54 hours lecture. AA/AS GE: III. Transfer: CSU; CSU GE: C2.

Degree Applicable, Credit Grading Option: OP

ENG 12B CRAFT OF WRITING FICTION: INTERMEDIATE 3 UNITS

Practice in writing fiction at an intermediate level. Builds on the skills developed in English 12A by requiring the use of vivid description, specific detail, dynamic and rounded character development, consistent point of view, and logical plotting that avoids cliché. Focus on developing themes that create intellectual or emotional resonance. Expectation of sentence structure, grammar, and format accuracy. Develop internal and external sources for stories and novels; analysis and criticism of published short fiction and a book-length work; analysis and criticism of peer work and individual's own work. Requires submission for publication at the end of the semester. Strongly Recommended: ENG 12A with a minimum grade of C and ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: III. Transfer: CSU; CSU GE: C2.

Degree Applicable, Credit Grading Option: OP

ENG 12C CRAFT OF WRITING FICTION: ADVANCED 3 UNITS

Practice in writing fiction at an advanced level. Builds on the intermediate skills developed in English 12B by requiring a mastery of description, detail, character development, consistent point of view, and logical plotting that avoids cliché. Focus on achieving themes that create intellectual or emotional resonance. Expectation of sentence structure, grammar, and format accuracy. Develop internal and external sources for stories and novels; analysis and criticism of published short fiction and a presentation about the craft in a book-length work; analysis and criticism of peer work and individual's own work. Requires submission for publication at the end of the semester; analysis and criticism of peer work and individual's own work. Prerequisite: ENG 12B with a minimum grade of C. Strongly Recommended: ENG 1AEX with a minimum grade of C or ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: III. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

ENG 13A THE CRAFT OF WRITING POETRY: BEGINNING 3 UNITS

Practice in writing poetry, using materials drawn from published poetry and individual's own work for analysis and criticism, with a focus on techniques of revision. Strongly Recommended: ENG 11 with a minimum grade of C or ENG 1A with a minimum grade of C or ENG 1AEX with a minimum grade of C. 54 hours lecture. AA/AS GE; III. Transfer: CSU; CSU GE: C2.

Degree Applicable, Credit Grading Option: OP

ENG 13B THE CRAFT OF WRITING POETRY: INTERMEDIATE 3 UNITS

Continued practice in writing poetry, using materials drawn from published poetry and individual's own work for analysis and criticism, with a focus on techniques of revision and submission for publication. Prerequisite: ENG 13A with a minimum grade of C. 54 hours lecture. AA/AS GE: III. Transfer: CSU; CSU GE: C2.

An accelerated one-semester preparation in English for success in college. Integrates reading, critical thinking and writing assignments, using materials that present a variety of perspectives from across the curriculum. 54 hours lecture, 54 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/NP

ENGLISH AS A SECOND LANGUAGE

The English as a Second Language (ESL) Program provides an opportunity for students whose first language is not English to develop language skills for their personal, professional, and academic lives. Through a six-semester sequence of reading, writing, grammar, and oral communication courses, students learn in lecture classes and attend one hour of lab. They read extensively from our Extensive Reading Library collection, use technology to enhance learning, enjoy rich cultural diversity in each class, and learn from intellectually stimulating material.

The advanced level courses are degree applicable and transferable.

The ESL Program provides a secure language foundation to prepare students for professional or academic training in English.

The Las Positas College website links you to resources to learn more about the ESL Program: www.laspositascollege.edu/esl.

English as a Second Language Courses (ESL)

ESL 1A CRITICAL READING AND COMPOSITION FOR ESL 6 UNITS

Integrated approach to reading, writing, and critical thinking intended to develop ability to read and write complex, college-level prose. Emphasis is on techniques of exposition, analysis, and argumentation as well as critical reading. Some research required. Prerequisite: ESL 24 with a minimum grade of C or placement through the ESL assessment process. 108 hours lecture, 18 hours laboratory. AA/AS GE: IA. Transfer: CSU, UC; C-ID# ENGL 100.

Degree Applicable, Credit Grading Option: OP

ESL 23 ADVANCED GRAMMAR 3 UNITS

This is a one semester advanced grammar course for academic purposes. The course focuses on sentences, clauses, and phrases, verb tenses and forms, auxiliary verbs and modals, and grammar analysis primarily to enhance reading comprehension. Students are advised to enroll concurrently in ESL 23 and ESL 24 or 25. Prerequisite: ESL 120B with a minimum grade of P or NESL 220B with a minimum grade of P and ESL 121B with a minimum grade of P or NESL 221B with a minimum grade of P or placement through the ESL assessment process. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

ESL 24 ADVANCED READING AND COMPOSITION I 6 UNITS

This is the first semester of a one-year advanced reading and writing course for academic purposes. Emphasis is on critical reading techniques and writing expository essays as well as on grammar and vocabulary development. Prerequisite: ESL 121B with a minimum grade of P or placement through the ESL assessment process. 108 hours lecture, 18 hours laboratory. Transfer: CSU, UC*. *ESL 24 & 25 combined: maximum UC credit, 8 units.

Degree Applicable, Credit Grading Option: OP

ESL 25 ADVANCED READING AND COMPOSITION II 6 UNITS

This is the second semester of a one-year reading and writing course for academic purposes. Emphasis is on critical reading and techniques of exposition, analysis, and argumentation. Prerequisite: ESL 24 with a minimum grade of C or placement through the ESL assessment process. 108 hours lecture, 18 hours laboratory. Transfer: CSU, UC*. *ESL 24 & 25 combined: maximum UC credit, 8 units.

Degree Applicable, Credit Grading Option: OP

ESL 26 ADVANCED EDITING 3 UNITS

This course is designed to increase students' awareness of their own use of written language and give them practice in editing strategies which will enable them to use linguistic forms accurately, meaningfully and appropriately in written expression. Students are advised to enroll concurrently in ESL 26 and ESL 24 or 25. Prerequisite: ESL 120B with a minimum grade of P or NESL 220B with a minimum grade of P and ESL 121B with a minimum grade of P or NESL 221B with a minimum grade of P or placement through the ESL assessment process. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

ESL 29 INDEPENDENT STUDY, ESL 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

ESL 100 BEGINNING SPELLING SKILLS FOR ENGLISH LANGUAGE LEARNERS 1 UNIT

This is a one semester beginning spelling class, designed to enable English language learners to recognize and use beginning sound/spelling patterns in English, develop an understanding of the sounds and symbols of English, including open/closed syllables, short and long vowel sounds, consonant and consonant cluster sounds, as well as the spelling of homophones and other problem words in everyday English. The course will also focus on basic dictionary skills to improve student autonomy. 18 hours lecture.

Non-Degree Applicable, Credit Grading Option: P/NP

ESL 110 BEGINNING VOCABULARY SKILLS FOR ENGLISH LANGUAGE LEARNERS 1 UNIT

This is a beginning level vocabulary skills class, designed to enable English language learners to improve language proficiency by learning new vocabulary and developing vocabulary-building skills.

The class will focus on the 0-1000 most common words in English, dictionary skills, and beginning morphology including prefixes, suffixes and roots. 18 hours lecture, 18 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/NP

ESL 115 INTERMEDIATE 1 UNIT
VOCABULARY SKILLS FOR
ENGLISH LANGUAGE LEARNERS

This is an intermediate level vocabulary skills class, designed to enable English language learners to improve language proficiency by learning new vocabulary and developing vocabulary-building skills. The class will focus on the 1000-2000 most common words in English, dictionary skills, and intermediate morphology including prefixes, suffixes and roots. Prerequisite: NESL 231B with a minimum grade of P or ESL 131B with a minimum grade of P or Placement into intermediate ESL through the ESL assessment process. 18 hours lecture, 18 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/NP

ESL 120A INTERMEDIATE GRAMMAR 3 UNITS
FOR READING AND WRITING

This is the first semester of a one-year course in intermediate grammar for academic writing and reading designed to enable students to identify, comprehend, and use linguistic forms accurately, meaningfully and appropriately in reading and writing. The course focuses on types of sentences, clauses, and phrases, word order, verb forms, verb tenses, and on the connection between vocabulary and grammar. Students are advised to enroll concurrently in ESL 120A and 121A, and 123 or 126. Prerequisite: NESL 230B with a minimum grade of P or ESL 130B with a minimum grade of P or placement through the ESL assessment process. 54 hours lecture.

Non-Degree Applicable, Credit Grading Option: P/NP

ESL 120B HIGH-INTERMEDIATE 3 UNITS
GRAMMAR FOR READING
AND WRITING

This is the second semester of a one-year course in intermediate grammar for academic writing and reading designed to enable students to use linguistic forms accurately, meaningfully and appropriately in written expression. The course focuses on types of sentences, clauses, phrases, word order, verb forms, verb tenses, and on the connection between vocabulary and grammar. This course also emphasizes analyzing grammar and meaning and detecting and correcting grammatical errors. Students are advised to enroll concurrently in ESL 120B and 121B and 123 or 126. Prerequisite: NESL 220A with a minimum grade of P or ESL 120A with a minimum grade of P or placement through the ESL assessment process. 54 hours lecture.

Non-Degree Applicable, Credit Grading Option: P/NP

ESL 121A INTERMEDIATE READING 6 UNITS
AND WRITING

This is the first semester of a one-year course in intermediate academic writing and reading. Classes will focus on writing sentences, paragraphs and compositions, developing strategies for reading comprehension and flexibility, on interactive reading, and on academic vocabulary development. Students will develop cultural

understanding, vocabulary, and fluency through a variety of academic writing and reading tasks. Students are advised to enroll concurrently in ESL 120A, and 121A and 123 or 126. Prerequisite: NESL 231B with a minimum grade of P or ESL 131B with a minimum grade of P or placement through ESL assessment process. 108 hours lecture, 18 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/NP

ESL 121B HIGH-INTERMEDIATE 6 UNITS
READING AND WRITING

This is the second semester of a one-year course in intermediate academic writing and reading. Classes will focus on writing sentences, paragraphs and compositions, developing strategies for reading comprehension and flexibility, on interactive reading, and academic vocabulary development. Students will develop cultural understanding and fluency through a variety of academic writing and reading tasks. Students are advised to enroll concurrently in ESL 120B and 121B and 123 or 126. Prerequisite: NESL 221A with a minimum grade of P or ESL 121A with a minimum grade of P or placement through ESL assessment process. 108 hours lecture, 18 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/NP

ESL 123 INTERMEDIATE ORAL 2 UNITS
COMMUNICATION

This is an intermediate level oral communication course. This course will enable students to use linguistic forms accurately, meaningfully and appropriately, emphasizing academic listening and speaking skills: listening and speaking in small groups, listening to short lectures on academic topics, learning academic vocabulary and expressions, making presentations on new topics. Prerequisite: ESL 130B with a minimum grade of P or ESL 131B with a minimum grade of P or ESL 133 with a minimum grade of P or placement through the ESL assessment process. 36 hours lecture, 18 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/NP

ESL 126 INTERMEDIATE 2 UNITS
PRONUNCIATION AND FLUENCY

Focused practice on recognizing and producing individual speech sounds, stress patterns, rhythm and intonation patterns, and grammatical signals through activities such as oral presentations, role play, authentic dialogue, and reading presentations. Prerequisite: ESL 130B with a minimum grade of P or ESL 131B with a minimum grade of P or ESL 136 with a minimum grade of P or placement through ESL assessment process. 36 hours lecture, 18 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/NP

ESL 130A BEGINNING GRAMMAR 3 UNITS
FOR READING AND WRITING

This is the first semester of a one-year course in beginning grammar for academic purposes designed to enable students to understand and use English accurately, meaningfully and appropriately. The course focuses on the connection between vocabulary and grammar, simple and compound sentences, phrases, verb forms, and verb tenses, especially simple present, simple past, and present progressive.

Students are advised to enroll concurrently in ESL 130A and 131A, and 133 or 136. Strongly Recommended: Placement through the ESL assessment process. 54 hours lecture.

Non-Degree Applicable, Credit Grading Option: P/NP

**ESL 130B HIGH - BEGINNING GRAMMAR 3 UNITS
FOR READING AND WRITING**

This is the second semester of a one-year course in beginning grammar for academic purposes designed to enable students to identify and use linguistic forms accurately, meaningfully and appropriately in written expression. The course focuses on simple and compound sentences, word order, verb tenses: simple present, past, and future as well as present and past progressive, verb forms, modals, phrases, and vocabulary development. Students are advised to enroll concurrently in ESL 130B and 131B, and 133 or 136. Prerequisite: NESL 230A with a minimum grade of P or ESL 130A with a minimum grade of P or placement through the ESL assessment process. 54 hours lecture.

Non-Degree Applicable, Credit Grading Option: P/NP

**ESL 131A BEGINNING READING 6 UNITS
AND WRITING**

This is the first semester of a one-year course in beginning academic writing and reading. Classes will focus on writing simple and compound sentences in short paragraphs, on developing strategies for increasing reading comprehension and flexibility, on interactive reading, and on developing academic vocabulary. Students will develop cultural understanding and fluency through a variety of writing and reading tasks. Students are advised to enroll concurrently in ESL 131A and 130A, and 133 or 136. Strongly Recommended: Appropriate skill level demonstrated through the ESL assessment process. 108 hours lecture, 18 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/NP

**ESL 131B HIGH-BEGINNING READING 6 UNITS
AND WRITING**

This is the second semester of a one-year course in beginning academic writing and reading. Classes will focus on writing simple, compound, and complex sentences in structured paragraphs, on developing strategies for increasing reading comprehension and flexibility, on interactive reading, and on developing academic vocabulary. Students will develop cultural understanding and fluency through a variety of writing and reading tasks. Students are advised to enroll concurrently in ESL 131B and 130B, and ESL 133 or 136. Prerequisite: NESL 231A with a minimum grade of P or ESL 131A with a minimum grade of P or Placement through ESL assessment process. 108 hours lecture, 18 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/NP

**ESL 133 BEGINNING ORAL 2 UNITS
COMMUNICATION**

This is a beginning oral communication course. This course will enable students to use English accurately, meaningfully and appropriately, emphasizing conversational skills: listening and speaking in small groups, using new grammar structures orally, learning new words and expressions, comprehending and using idiomatic expressions. Strongly Recommended: Placement through

the ESL assessment process. 36 hours lecture, 18 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/NP

**ESL 136 PRONUNCIATION AND 2 UNITS
FLUENCY**

Focused practice on recognizing and producing individual speech sounds, stress patterns, rhythm and intonation patterns, and grammatical signals through activities such as oral presentations, role play, authentic dialogue, and presentations. Students will focus on developing listener friendly pronunciation. Course content includes individual as well as group work. Strongly Recommended: Placement through the ESL assessment process. 36 hours lecture, 18 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/NP

ENVIRONMENTAL SCIENCE

The Environmental Science program is a science and math based, multidisciplinary program focusing on the interaction of humans and the natural environment. The core requirements and elective courses for the Environmental Science major will prepare students to contribute, both personally and professionally, to the goal of creating a sustainable future.

Programs of Study

Degrees:

- AS – Environmental Science

Career Opportunities

Career opportunities, with further study, students may pursue careers in environmental science include: agriculture and natural resource engineers, animal and plant scientists, geoscientists, marine scientists, environmental compliance inspectors, environmental health specialists, environmental technicians, wildlife managers, forestry management specialists, horticulturalists, waste management specialists, and urban planners. In addition to the career options listed above, graduates in environmental science will also find work in business and industry areas not traditionally associated with the environment as sustainability becomes a necessary component of public and private sectors of the economy.

AS – Environmental Science

About the Degree

The Associate of Science in Environmental Science is a multi-disciplinary program which provides the scientific foundation for upper division coursework and career positions in environmental Science. Classes feature a broad background of preparation in math and science in such associated disciplines as mathematics, geology, physics, chemistry, biology, as well as economics.

Program Outcomes

- Upon completion of the AS in Environmental Science, students are able to analyze natural phenomena using appropriate mathematical and computational tools employed in the physical and biological sciences.
- Upon completion of the AS in Environmental Science, students are able to analyze natural phenomena using fundamental scientific principles in the physical and biological sciences.
- Upon completion of the AS in Environmental Science, students are able to conduct a literature search, identify and evaluate legitimate sources, and clearly communicate the results.
- Upon completion of the AS in Environmental Science, students are able to perform scientific experiments, mathematically analyze the data, and evaluate the results.

Required Core: (43 Units)

BIO 1A (General Botany).....	5
BIO 1B (General Zoology)	5
CHEM 1A (General College Chemistry I).....	5
CHEM 1B (General College Chemistry II).....	5
ECON 1 (Principles of Microeconomics).....	3
EVST 5 (Energy and Sustainability)	3
GEOL 1 (Physical Geology)	3
GEOL 1L (Physical Geology Laboratory).....	1
MATH 1 (Calculus I).....	5
PHYS 2A (Introduction to Physics I)	4
PHYS 2B (Introduction to Physics II)	4

Program-Based GE[^]: (3 Units)

BIO 40 (Humans and the Environment).....	3
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Total Units for the Major 43

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

ENVIRONMENTAL STUDIES

The degree program in Environmental Studies is a multidisciplinary program which provides students the academic foundation for understanding the interaction of humans and the natural environment from scientific, technological, political, environmental, social, and economic perspectives. Accordingly, this program features a diverse array of classes designed for students transferring to a specialized program in environmental studies at many four year institutions. In completing the AA degree, students may study geology, geography, ecology, biology, chemistry, mathematics, philosophy, sociology, ethics, political science, and economics, as well as energy and sustainability.

Programs of Study

Degrees:

- AA – Environmental Studies

Career Opportunities

With further study, career opportunities include environmental planners, and environmental consultants as well as employment in related areas such as water, air, and forestry resource management, sustainable finance, energy auditing, transportation analysis, waste management, urban planning, sustainable construction, environmental impact analysis, and environmental remediation. Environmental studies graduates also work in fields not traditionally associated with the environment as sustainability becomes a necessary component of both public and private sectors of the economy.

AA – Environmental Studies

About the Degree

The Associate of Arts in Environmental Studies is a multi-disciplinary program which provides students the academic foundation for understanding the scientific and technological basis of energy technology, as well as the political, social, and economic factors that underlie energy policy choices. This transferable program features a diverse array of classes in the degree pattern from the natural and physical sciences in such associated disciplines as geology, geography, ecology, chemistry, statistics, philosophy, and economics. Students can further expand this foundation by selecting electives from other disciplines such as anthropology and political science.

Career Opportunities

Career opportunities include Environmental Planner, Environmental Consultants, and Greenhouse Gas Emissions Permitting Consultants. Graduates will also have the potential to specialize in related areas such as water, air and forestry resources management, finance, energy and transportation analysis, waste management, low impact construction, and environmental remediation.

Program Outcomes

- Upon completion of the AA in Environmental Studies, students are able to analyze natural phenomena using fundamental scientific principles in the physical and biological sciences.
- Upon completion of the AA in Environmental Studies, students are able to conduct a literature search, identify and evaluate legitimate sources, and clearly communicate the results.
- Upon completion of the AA in Environmental Studies, students are able to construct arguments for environmental policy based on a sociopolitical and scientific understanding of human interactions with the environment.
- Upon completion of the AA in Environmental Studies, students are able to perform scientific experiments, analyze the data, and evaluate the results.

Required Core: (30 Units)

BIO 30 (Introduction to College Biology).....	4
BIO 40 (Humans and the Environment).....	3
CHEM 31 (Introduction to College Chemistry).....	4
ECON 1 (Principles of Microeconomics).....	3
EVST 5 (Energy and Sustainability)	3
GEO 1 (Physical Geology)	3
GEOG 1 (Introduction to Physical Geography).....	3
MATH 40 (Statistics and Probability)	4
PHIL 2 (Ethics)	3

List A: Select Two (6-8 Units)

ANTR 1 (Biological Anthropology).....	3
ANTR 2 (Introduction to Archaeology).....	3
ANTR 3 (Cultural Anthropology)	3
BIO 60 (Marine Biology)	4
BIO 70 (Field Biology)	3
GEOG 15 (Introduction to GIS).....	3
GEO 2 (Historical Geology with Lab)	4
GEO 5 (Environmental Geology: Hazards & Disasters).....	3
GEO 7 (Environmental Geology: Resources, Use Impact & Pollution)	3
GEO 12 (Introduction to Oceanography).....	3
HUMN 6 (Nature and Culture)	3
POLI 7 (Introduction to American Government)	4
POLI 12 (Introduction to California State and Local Government) .	3
SOC 5 (Introduction to Global Studies) or GS (Introduction to Global Studies),.....	3

Total Units for the Major36-38

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective

units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Environmental Studies Courses (EVST)

EVST 5 ENERGY AND SUSTAINABILITY 3 UNITS

Introduction and exploration of Energy production, utilization, management, and the effects on society and the environment. This course will also compare and contrast current and future renewable and non renewable methods of energy generation, auditing, and conservation. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B1; IGETC: 5A.

Degree Applicable, Credit Grading Option: OP

ETHNIC STUDIES

Ethnic Studies is the interdisciplinary study of the unique experiences and histories of major American racial ethnic groups. Rooted in social justice and anti-racist tradition, Ethnic Studies critically analyzes the current issues facing communities of color and the intersection of racial ethnic identities with other forms of social identity such as class, sexuality, religion, indigeneity, and immigration status.

Ethnic Studies Courses (ETHS)

ETHS 5 INTRODUCTION TO CROSS-CULTURAL PSYCHOLOGY 3 UNITS

This course is an introduction to cross-cultural identities, which focuses on the way culture influences human behavior and shapes mental processes. We will study a variety of ethnic, social, and cultural group developmental norms and the extent of influence these norms may have on an individual. This course seeks to strengthen diversity awareness and knowledge by bringing awareness to the importance of engaging in difficult discussions. This course will review a broad range of theories and research findings regarding cultural influences on human behavior and cognitive process. Topics covered include development of an individual worldview, identity development, stereotypes, prejudice, discrimination, racism, sexism, heterosexism, ableism, ageism, immigration & acculturation, privilege, oppression and cross-cultural issues in psychological literature. Students who have completed, or are enrolled in PSYC 21 may not receive credit. Strongly Recommended: PSYC 1 with a minimum grade of C. 54 hours lecture. AA/AS GE: IV, AC. Transfer: CSU, UC; CSU GE: D; IGETC: 4..

Degree Applicable, Credit Grading Option: OP

ETHS 6 INTRODUCTION TO RACE AND ETHNICITY 3 UNITS

Racial and ethnic relations in the United States. Examines the cultural, political, and economic practices and institutions that

support or challenge racism, racial and ethnic inequalities, as well as patterns of interaction between various racial and ethnic groups. Students who have completed, or are enrolled in, SOC 3 may not receive credit. Strongly Recommended: SOC 1 with a minimum grade of C. 54 hours lecture. AA/AS GE: IV, AC. Transfer: CSU, UC; CSU GE: D0, D3; IGETC: 4J; C-ID# SOCI 150.

Degree Applicable, Credit Grading Option: OP

FILM STUDIES

Film Studies at Las Positas College offers an interdisciplinary approach to studying film history, film analysis, and film production itself. Students can choose from two programs: an AA or a Certificate of Achievement in Film Studies. Depending on their interests, Film Studies students can explore film's historical development, film photography, acting for film, intersections between film and theater, music of great film composers, multimedia reporting, film theory, as well as major global cinema traditions and directors.

Programs of Study

Degrees:

- AA – Film Studies

Certificates of Achievement:

- Film Studies

Career Opportunities

Film Studies courses prepare those interested in majoring and/or working in fields such as Film, Television, Theater, Multimedia Studies, Liberal Arts, Cultural Studies, or Humanities.

AA – Film Studies

About the Degree

The Film Studies AA degree is an LPC program designed to offer students an introduction to the history, analysis, and art of filmmaking. Students will learn about the development of film as an art form, cinematic language, the impact of film on modern media and contemporary culture, and various approaches to film criticism. Depending on their interests, this AA also provides students with the chance to explore basic film production, acting for film, the intersections between film and theater, music of great film composers, multimedia reporting, as well as major global cinema traditions and directors. Film Studies courses prepare those interested in majoring and/or working in fields, such as Film, Theater, Multimedia Studies, Liberal Arts, Interdisciplinary Studies, Cultural Studies, or Humanities.

Program Outcomes

- Upon completion of the AA in Film Studies, students are able to describe the historical development of filmmaking and identify major historical film styles.

- Upon completion of the AA in Film Studies, students are able to describe the impact of film on modern media and culture.
- Upon completion of the AA in Film Studies, students are able to analyze film form and content using the major approaches of film criticism.
- Upon completion of the AA in Film Studies, students are able to create a short film, incorporating general knowledge of film production (e.g. narrative, mise-en-scene, cinematography, acting, editing, and film sound).

Required Core: (6 units)

HUMN 2 (Introduction to Film Studies)	3
PHTO 58 (Introduction to Videography)	3

List A: Select One (3 Units)

JAMS 1 (Introduction to Mass Communications)	3
JAMS 2 (Introduction to Media).....	3

List B: Select Three (9-10 Units)

HUMN 4 (Global Cinemas)	4
JAMS 23 (Multimedia Reporting)	3
MUS 22A (Scoring for Film and Multimedia 1)	3
MUS 22B (Scoring for Film and Multimedia 2)	3
MUS 34 (Music in Film)	3
PHTO 50 (Introduction to Photography)	3
PHTO 69 (Intermediate Videography).....	3
THEA 1A (Theory/Practice of Acting I)	3
THEA 11 (Stage to Screen)	3
THEA 12 (Film as Art & Communication).....	3

Total Units for the Major 18-19

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Film Studies

About the Certificate

The Film Studies Certificate of Achievement is an LPC program designed to offer students an introduction to the history, analysis, and art of filmmaking. Students will learn about the development of film as an art form, cinematic language, the impact of film on modern media and contemporary culture, and various approaches to film criticism. Depending on their interests, this Certificate of

Achievement also provides students the chance to explore basic film production, acting for film, the intersections between film and theater, music of great film composers, multimedia reporting, as well as major global cinema traditions and directors. Film Studies courses prepare those interested in majoring and/or working in fields such as Film, Theater, Multimedia Studies, Liberal Arts, Interdisciplinary Studies, Cultural Studies, or Humanities.

Program Outcomes

- Upon completion of the Certificate of Achievement in Film Studies, students are able to describe the historical development of filmmaking and identify major historical film styles.
- Upon completion of the Certificate of Achievement in Film Studies, students are able to describe the impact of film on modern media and culture.
- Upon completion of the Certificate of Achievement in Film Studies, students are able to analyze film form and content using the major approaches of film criticism.
- Upon completion of the Certificate of Achievement in Film Studies, students are able to create a short film, incorporating general knowledge of film production (e.g. narrative, mise-en-scene, cinematography, acting, editing, and film sound).

Required Core: (6 units)

HUMN 2 (Introduction to Film Studies)	3
PHTO 58 (Introduction to Videography)	3

List A: Select One (3 Units)

JAMS 1 (Introduction to Mass Communications)	3
JAMS 2 (Introduction to Media)	3

List B: Select Three (9-10 Units)

HUMN 4 (Global Cinemas)	4
JAMS 23 (Multimedia Reporting)	3
MUS 22A (Scoring for Film and Multimedia 1)	3
MUS 22B (Scoring for Film and Multimedia 2)	3
MUS 34 (Music in Film)	3
PHTO 50 (Introduction to Photography)	3
PHTO 69 (Intermediate Videography)	3
THEA 1A (Theory/Practice of Acting I)	3
THEA 11 (Stage to Screen)	3
THEA 12 (Film as Art & Communication)	3

Total Units 18-19

FIRE SERVICE TECHNOLOGY

Las Positas College Fire Service Technology "core" curriculum is aligned with the National FESHE (Fire and Emergency Services Higher Education) 2018 model Fire Service curriculum, in addition several course offerings provide entry level industry certificates from the Office of State Fire Marshal, State Fire Training Division.

The Associate of Science Degree program focuses on both the technical training and the general education course work required for a degree. This program will prepare completers to enter gainful employment in the fire industry the fire technology program provides educational courses that prepare students to enter the field of fire technology as a firefighter. The program supports working partnerships with county and city fire departments forming a regional training center.

About Las Positas FIRE Academy-ARTP (Approved Regional Training Program)



Las Positas College Regional Fire Academy is an accredited Regional Training program (ARTP) as designated by the Office of the California State Fire Marshal (CSFM). As an ARTP, Las Positas College Regional Fire Academy is authorized to deliver a CSFM Accredited Fire Fighter I Academy and a full suite of CSFM courses leading advanced levels of certification. In addition, Las Positas College Regional Fire Academy is authorized by CSFM to deliver Fire Fighter I certification examinations in support of CSFM's accreditation by the International Fire Service Accreditation Congress (IFSAC) and the National Board on Fire Service Professional Qualifications (Pro Board).

The Las Positas College Regional Fire Academy is an accredited California State Fire Marshal program providing certificates from State Fire Training (SFT) and the National Wildfire Coordinating Group (NWCG). This program and other similar programs statewide are intended to provide an educated recruit base for Fire Departments in the state of California. This program is designed to meet the dynamic challenges of fire department needs for pre-service recruits in the 21st century and enabling students to successfully become employed by fire departments throughout the state of California and within the Alameda County Community College District's service area. Las Positas College Fire Academy graduates are employed in every Fire Department in Alameda County and many departments in California as well as out of state.

The program goal/objective of the Fire Academy is to provide an academic, behavioral, physical, and manipulative skills base to enable a student upon graduation to successfully compete for an entry Firefighter position and to complete a departments probationary requirements. In order to maintain accreditation, the Las Positas College Fire Academy is reviewed by the California State Fire Marshal (CSFM ARTP Accredited Programs) and members of the California Fire Technology/Academy Directors Association every 3 years from the initial date of accreditation and 5 years thereafter.

Programs of Study

Degrees:

- AS – Fire Officer Leadership and Management
- AS – Fire Service Technology

Certificates of Achievement:

- Company Officer
- Fire Academy - Fire Suppression
- Fire Prevention
- Fire Service Technology

Career Opportunities

Career opportunities provided through the Fire Service Technology Program include Volunteer / Reserve Firefighter, Seasonal Wildland Firefighter, Full Time Professional Firefighter, Firefighter / EMT, Firefighter / Paramedic, Fire Inspector or Code Enforcement Officer, Fire Cause and Origin Investigator and State Certified “Fire Officer” which is desired for promotion to a “Company Officer” in most Fire Service Agencies.

AS – Fire Officer Leadership and Management

About the Degree

The target audience for our Fire Officer Leadership and Management Degree is working Firefighters who hold Firefighter 1 and Firefighter 2 certifications and are looking to promote to the rank of Lieutenant/Captain of Fire or above. There are many options to completing this degree which may include: Credit by prior learning, credit by work experience, and credit by examination, in addition attending DE or Face-to-Face classes. Here is a brief overview of our AS-FOLM degree: A Fire Officer is a mid-level supervisor who performs both supervisory and first-line managerial functions who has met all the job performance and certification requirement of Fire Officer I as defined in NFPA 1021, Standard for Fire Officer Professional Qualifications. Additionally, this individual has satisfied all the requirements in the Company Officer Certification Track with State Fire Training. Graduates of LPC FOLM AS Degree should be able to perform the following duties germane to the profession: 1. Evaluate member job performance; 2. Prepare a project or divisional budget,

news releases, and/or new policy or changes in existing policies; 3. Conduct inspections to identify hazards and address violations, and conduct fire investigations to determine origin and preliminary causes; 4. Supervise multi-unit emergency operations, deploy assigned resources, and develop and conduct post-incident analysis; 5. Review injury, accident, and health exposure reports, identify unsafe work environments or behaviors, and take approved action to prevent their re-occurrence.

Career Opportunities

Company Officer Lieutenant or Captain or Fire Battalion Chief.

Program Outcomes

- Upon completion of the AS in Fire Officer Leadership and Management, students are able to demonstrate interpersonal, communication and conflict resolution skills encountered in Fire and Emergency Services organizations.
- Upon completion of the AS in Fire Officer Leadership and Management, students are able to Identify and examine current and emerging concepts/practices in Fire and Emergency Services Organizations
- Upon completion of the AS in Fire Officer Leadership and Management, students are able to demonstrate foundational administrative, operational and HR responsibilities of a first line supervisor in a Fire and Emergency Services

Required Core: (20 Units)

BUSN 87 (Organizational Management and Leadership).....	3
FST 8 (Fire Strategy and Tactics)	3
FST 20 (CO 2A Human Resource Management for Company Officers).....	2.5
FST 21 (CO 2B General Administrative Functions for Company Officers).....	1.5
FST 22 (CO 2C Fire Inspections and Investigation for Company Officers).....	2.5
FST 23 (CO 2D All - Risk Command Operations for Company Officers).....	2.5
FST 24 (CO 2E Wildland Incident Operations for Company Officers).....	2.5
FST 25 (Instructor 1).....	2.5

Program-Based GE[^]: (3 Units)

PHIL 2 (Ethics)	3
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Total Units for the Major 20

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that

may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Fire Service Technology

About the Degree

The main focus of the Fire Service Technology Program is to prepare our students for ENTRY level positions with Municipal, State and Federal Fire Service agencies using a combination of training and education as our main foundation. The Associate Degree incorporates the standardized Fire Technology curriculum identified by the offices of the California State Chancellor and State Fire Marshal. You'll learn all the guidelines and regulations to ensure both the safety of you and the public. With this curriculum, you'll be prepared for any fire-related crisis, minimizing loss of life and property on a daily basis. LPC FST technology program is aligned with FESHE National FIRE model curriculum.

Career Opportunities

Career opportunities provided through the Fire Service Technology Program include Volunteer / Reserve Firefighter, Seasonal Wildland Firefighter, Full Time Professional Firefighter, Firefighter / EMT, Firefighter/Paramedic, Fire Inspector or Code Enforcement Officer, Fire Cause and Origin Investigator and State Certified "Fire Officer" which is desired for promotion to a "Company Officer" in most Fire Service Agencies. Students in the Fire Service Technology Program have been very successful in finding employment in the Fire Service as "Professional Firefighters" throughout the United States due to their extensive training and knowledge that they have achieved here in comparison to the local competition of available candidates in many other states.

Program Outcomes

- Upon completion of the AS in Fire Service Technology, students are able to analyze and apply measures to resolve problems in areas of suppression, prevention, and EMS.
- Upon completion of the AS in Fire Service Technology, students are able to analyze and evaluate data to solve Fire Technology problems.
- Upon completion of the AS in Fire Service Technology, students are able to demonstrate technical, cognitive, and psycho-motor skills necessary to achieve and maintain employment in the fire service.
- Upon completion of the AS in Fire Service Technology, students are able to gain knowledge safety, rescue, emergency medical operations and hazardous materials.
- Upon completion of the AS in Fire Service Technology, students are able to recognize the importance of ethics and professionalism within the Fire Technology field.

Required Core: (19 Units)

FST 1 (Fire Protection Organization).....3

FST 2 (Principles of Fire and Emergency Services Safety and Survival).....3
 FST 3 (Fire Behavior and Combustion)3
 FST 4 (Fire Prevention)3
 FST 5 (Fire Protection Systems)3
 FST 6 (Building Construction for Fire Protection)3
 FST 7 (Fire Service Conditioning & Physical Agility Development).....1

Program-Based GE[^]: Select One (3 Units)

CMST 1 (Fundamentals of Public Speaking)3
 CMST 10 (Interpersonal Communication).....3
 PHIL 2 (Ethics)3

Total Units for the Major 19

Regional Fire Academy (FST 12) is a recommended elective in order to obtain a California State Fire Marshall Firefighter 1 Certificate.

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Company Officer

About the Certificate

The Company Officer Certificate of Achievement is designed for firefighters wishing to be promoted within their Fire Agencies to the rank of Lieutenant, Captain, and above. The Company Officer Certification utilizes NFPA 1021 Standard for Fire Officer Professional Qualifications (2014) and NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications (2016) to provide the qualifications for State Fire Training's Company Officer certification. **Some of the courses have prerequisites that can be met in a number of ways, please contact the FST Program Coordinator at gsierra@laspositascollege.edu **

Career Opportunities

Company Officer Lieutenant - Captain of Fire Requirement to be promoted to Chief Officer or Fire Chief

Program Outcomes

- Upon completion of the Certificate of Achievement in Company

Officer, students are able to demonstrate the use of human resources to accomplish assignments of a company officer such as personnel professional evaluations and performance reviews.

- Upon completion of the Certificate of Achievement in Company Officer, students are able to identify the steps of certification in the Company Officer certification track.
- Upon completion of the Certificate of Achievement in Company Officer, students are able to identify conducting incident size-up, developing and implementing an initial plan of action involving single and multi-unit operations for various types of emergency incidents.
- Upon completion of the Certificate of Achievement in Company Officer, students are able to demonstrate how to implement a plan of action to deploy incident resources completing all operations to suppress a wild land fire incident.
- Upon completion of the Certificate of Achievement in Company Officer, students are able to demonstrate the ability to teach and deliver instruction from a prepared lesson plan utilizing instructional aids and evaluation instruments.

Required Core: (14 Units)

FST 20 (CO 2A Human Resource Management for Company Officers).....	2.5
FST 21 (CO 2B General Administrative Functions for Company Officers).....	1.5
FST 22 (CO 2C Fire Inspections and Investigation for Company Officers).....	2.5
FST 23 (CO 2D All - Risk Command Operations for Company Officers).....	2.5
FST 24 (CO 2E Wildland Incident Operations for Company Officers).....	2.5
FST 25 (Instructor 1).....	2.5

Total Units 14

**Certificate of Achievement
Fire Academy - Fire Suppression**

About the Certificate

The Las Positas College Regional Fire Academy is an accredited California State Fire Marshal program providing certificates from State Fire Training, the National Wildfire Coordinating Group and CAL Fire. This program and other similar programs statewide are intended to provide an educated recruit base for fire departments in the state of California. This program is designed to meet the dynamic challenges of fire department needs for pre-service recruits in the 21st century and enabling students to successfully become employed by fire departments throughout the state of California and within the Alameda County Community College Districts service area. The Las Positas College Fire Academy graduates are employed in every Fire Department in Alameda County and many departments in California as well as throughout the United States.

Career Opportunities

Firefighter Trainee Firefighter Reserve Seasonal Firefighter (Cal

FIRE- US Forest Service) Hand-crew- Forestry Firefighter Upon successful completion of the Academy, students will meet the training requirements for the California State Fire Marshal Firefighter I. Student will then be able to apply for the Certification after successful completion of the FF1 2013 task book and experience requirement which includes: one year as a Volunteer or Reserve firefighter or six months as an Intern/full time paid firefighter with a recognized California fire department. The California State Fire Marshal's Office has adopted a National accredited certification process, which is approved by the International Fire Service Accreditation Congress (IFSAC) and the National Board on Fire Service Professional Qualifications (Pro Board).

Program Outcomes

- Upon completion of the Certificate of Achievement in Fire Academy-Fire Suppression, students are able to define and identify the structure, culture and expectations of entry level firefighting personnel.
- Upon completion of the Certificate of Achievement in Fire Academy-Fire Suppression, students are able to demonstrate the proper use of equipment, tools, skills and abilities required of an entry-level firefighter.
- Upon completion of the Certificate of Achievement in Fire Academy-Fire Suppression, students are able to demonstrate the ability to perform to the standard set forth by State Fire Training Firefighter 2013 skills and examination standards.

Required Core: (20 Units)

FST 1 (Fire Protection Organization).....	3
FST 12A (LPC Regional FIRE Academy - Firefighter 1 and Firefighter 2)	17

Total Units 20

**Certificate of Achievement
Fire Prevention**

About the Certificate

This certificate of achievement provides fundamental information regarding the history and philosophy of fire prevention and the organization and operation of a fire prevention bureau. Students will examine the use of codes, the identification and correction of fire hazards, the components of detection and suppression systems, and the relationship of fire prevention with fire safety education. Please note that in order for the student to be certified by state fire training as a FIRE inspector the following courses along with educational experience is needed: http://osfm.fire.ca.gov/training/FireInspector_1

Career Opportunities

Recipients of the Las Positas College Certificate of Achievement in Fire Prevention will be eligible to apply for positions as firefighter, firefighter/EMT, Seasonal Firefighter, Reserve Firefighter, Student Firefighter or Fire Aide and some Fire Prevention bureaus that do not require SFT fire inspector-1 certification but do require college work in Fire Service Technology with an emphasis on Fire Prevention.

Program Outcomes

- Upon completion of the Certificate of Achievement in Fire Prevention, students are able to explain the difference between fire codes and building codes and how they apply to different municipalities.
- Upon completion of the Certificate of Achievement in Fire Prevention, students are able to use and demonstrate how to properly conduct a fire inspection.
- Upon completion of the Certificate of Achievement in Fire Prevention, students, given field observations, are able to recognize hazardous conditions involving equipment, processes, and operations in order to verify that equipment is maintained, and processes and operations are conducted in accordance with applicable codes and standards.

Required Core: (18 Units)

EMS 30 (Emergency Medical Responder).....	3
FST 1 (Fire Protection Organization).....	3
FST 3 (Fire Behavior and Combustion)	3
FST 4 (Fire Prevention)	3
FST 5 (Fire Protection Systems)	3
FST 6 (Building Construction for Fire Protection)	3

Total Units 18

Certificate of Achievement Fire Service Technology

About the Certificate

The Fire Service Technology program prepares the student for a career in the Fire Service, through the provision of highly specialized curriculum which involves both cognitive and psychomotor applications of education and training. The necessary knowledge and skills sets of a desired educational background for an opportunity of employment or advancement into several different fire service career paths may be achieved through the successful completion of the different Fire Service Technology courses provided for in the program.

Career Opportunities

Career opportunities provided through the Fire Service Technology Program include Volunteer / Reserve Firefighter, Seasonal Wildland Firefighter, Full Time Professional Firefighter, Firefighter / EMT, Firefighter / Paramedic, Fire Inspector or Code Enforcement Officer, Fire Cause and Origin Investigator and State Certified "Fire Officer" which is desired for promotion to a "Company Officer" in most Fire Service Agencies. Students in the Fire Service Technology Program have been very successful in finding employment in the Fire Service as "Professional Firefighters" throughout the United States due to their extensive training and knowledge that they have achieved here in comparison to the local competition of available candidates in many other states.

Program Outcomes

- Upon completion of the Fire Service Technology Certificate of

Achievement, students are able to analyze and evaluate data to solve Fire Technology problems.

- Upon completion of the Fire Service Technology Certificate of Achievement, students are able to recognize the importance of ethics and professionalism within the Fire Technology field.
- Upon completion of the Fire Service Technology Certificate of Achievement, students are able to analyze and apply measures to resolve problems in areas of suppression, prevention, and EMS.
- Upon completion of the Fire Service Technology Certificate of Achievement, students are able to demonstrate technical, cognitive, and psycho-motor skills necessary to achieve and maintain employment in the fire service.

Required Core: (22 Units)

EMS 30 (Emergency Medical Responder).....	3
FST 1 (Fire Protection Organization).....	3
FST 2 (Principles of Fire and Emergency Services Safety and Survival).....	3
FST 3 (Fire Behavior and Combustion)	3
FST 4 (Fire Prevention)	3
FST 5 (Fire Protection Systems)	3
FST 6 (Building Construction for Fire Protection)	3
FST 7 (Fire Service Conditioning & Physical Agility Development).....	1

Total Units 22

Fire Service Technology Courses (FST)

FST 1 FIRE PROTECTION ORGANIZATION 3 UNITS

This course provides an overview to fire protection and emergency services, career opportunities in fire protection and related fields, culture and history of emergency services, fire loss analysis, organization and function of public and private fire protection services, fire departments as part of local government, laws and regulations affecting the fire service; fire service nomenclature, specific fire protection functions, basic fire chemistry and physics, introduction to fire protection systems, introduction to fire strategy and tactics, and life safety initiatives. 54 hours lecture. Transfer: CSU; C-ID# FIRE 100 X.

Degree Applicable, Credit Grading Option: GR

FST 2 PRINCIPLES OF FIRE AND EMERGENCY SERVICES SAFETY AND SURVIVAL 3 UNITS

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services; assessing fire dangers and handling common fire situations; risk abatement and personal preparation for unforeseen fire emergencies; roles and responsibilities in educating the public on fire safety; development of a survival attitude using problem-solving techniques for increased situational awareness and self-reliance in an emergency.

54 hours lecture. Transfer: CSU; C-ID# FIRE 150 X.

Degree Applicable, Credit Grading Option: GR

FST 3 FIRE BEHAVIOR AND COMBUSTION 3 UNITS

Theory and fundamentals of why fires start, spread, and are controlled. An in-depth study of fire chemistry and fire physics, characteristics of materials, extinguishing agents, and fire control techniques. 54 hours lecture. Transfer: CSU; C-ID# FIRE 140 X.

Degree Applicable, Credit Grading Option: GR

FST 4 FIRE PREVENTION 3 UNITS

Provides fundamental knowledge relating to the field of fire prevention. Topics include, history and philosophy of fire prevention and organization, organization and operation of a fire prevention bureau, use and applications fire codes and standards, plans review, fire inspections, identification and correction of fire hazards, fire and life safety education, and fire investigation. Strongly Recommended: FST 1 with a minimum grade of C. 54 hours lecture. Transfer: CSU; C-ID# FIRE 110 X.

Degree Applicable, Credit Grading Option: GR

FST 5 FIRE PROTECTION SYSTEMS 3 UNITS

This course provides information relating to the features of design, and operations of fire alarm systems, water-based suppression systems, special hazard fire suppression systems and water supply for fire protection, smoke and thermal detection systems. Installation, testing and maintenance of automatic or manual protection systems, water supply for sprinkler and standpipe systems, and portable fire extinguishers. 54 hours lecture. Transfer: CSU; C-ID# FIRE 120 X.

Degree Applicable, Credit Grading Option: GR

FST 6 BUILDING CONSTRUCTION FOR FIRE PROTECTION 3 UNITS

This course provides the components of building construction related to fire and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at fire and collapse emergencies. Development and evolution of building and fire codes will be studied in their relationship to past fires and collapses in residential, commercial, and industrial occupancies. Strongly Recommended: FST 1 with a minimum grade of C. 54 hours lecture. Transfer: CSU; C-ID# FIRE 130 X.

Degree Applicable, Credit Grading Option: GR

FST 7 FIRE SERVICE CONDITIONING & PHYSICAL AGILITY DEVELOPMENT 1 UNIT

This course is an introduction to the components of physical fitness development and conditioning, with an emphasis in preparing students for the physical agility performance and testing standards required of "Emergency First Responder" Candidates entering into Police or Fire Academies. Students will be presented instruction on proper warm-up and stretching techniques, how to maintain and develop the components of fitness through increased muscular strength and muscular endurance, cardiovascular endurance and recovery, and increased flexibility and balance. Students will be

introduced to Circuit Training and will also receive skills instruction on various testing parameters of the Nationally approved and recognized Certified Physical Agility Test (CPAT). Students will additionally receive instruction on various "Tools of the Trade" (i.e., Ladders, Fire Hose, SCBA) for developing proper skills in handling, lifting and carrying techniques as well as developing cardio-respiratory control and aerobic conditioning while wearing a "Self Contained Breathing Apparatus" (SCBA) under conditions of physical exertion. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU; CSU GE: E.

Degree Applicable, Credit Grading Option: GR

FST 8 FIRE STRATEGY AND TACTICS 3 UNITS

Fire Strategy and Tactics examines how a fire department responds to structure fires and other emergency incidents from the incident commander's viewpoint. The class examines strategies and tactics from the incident commander's viewpoint. Students are challenged with decision-making through a variety of occupancies as they utilize basic firefighting procedures and considerations. Principles of fire control, through utilization of manpower, equipment, extinguishing agents, and fire command and control procedures will be discussed and demonstrated. Using information on building construction types in fire control, pre-fire planning and the organized approach to decision making on the fire ground will be applied. The target audience for this course is second year FST students or working fire professionals who wish to promote to a supervisory role. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

FST 10 FIRE ACADEMY PREPARATION 1 UNIT

This course provides an orientation to the Firefighter 1 and Firefighter 2 Academy. This course concentrates on the 10 Mandatory testable evolutions for the IFSAC and PRO Board testing for the Structural Module of a CSFM ARTP/ALA Fire Academy. This course can also be used as a bridge summer course for High School students and others wishing to learn more about the physical and psychological rigors of a Fire Academy. The intended audience is HS students looking for a summer program, or students who have completed FST 7 Fire Service Conditioning and wish to expand their knowledge of commonly used tools and equipment. Strongly Recommended: FST 7 with a minimum grade of C. 9 hours lecture, 27 hours laboratory.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

FST 11C STANDALONE FIREFIGHTER I 1.5 UNITS SKILLS PRACTICE AND TESTING

This course prepares students to meet the State Fire Training (SFT) requirements for Fire Fighter I (FFI) including the capstone knowledge and skills necessary to pass. Upon successful completion of the IFSAC and Pro-Board Certification Exams at the end of the course, students will receive a pass letter from the SFT. Prerequisite: FST 11 with a minimum grade of B or Completion of a Fire Academy using the Firefighter 2013 curriculum as the described by California State Fire Training and a letter from a recognized fire agency attesting to the fact that the applicant has met the aforementioned requirement. 9 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

FST 12 LPC REGIONAL FIRE ACADEMY - FIREFIGHTER 1 AND FIREFIGHTER 2 17 UNITS

This course provides the skills and knowledge needed for the entry-level firefighter to perform structural suppression activities, wildland fire suppression activities and hazardous materials mitigation and containment activities. This course covers topics in both Firefighter 1 and Firefighter 2 in accordance with the California State Fire Marshall 2019 Curriculum. Prerequisite: EMS 30 with a minimum grade of C or a valid State of California EMT or PARAMEDIC license issued by the CA EMSA also meet this prerequisite, FST 1 with a minimum grade of C, FST 7 with a minimum grade of C or A valid CPAT (Candidate Physical Agility Test) or a BIDDLE (Firefighter Physical Agility) test also meet this prerequisite. 180 hours lecture, 378 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: GR

FST 13 LPC REGIONAL FIRE ACADEMY-FIREFIGHTER 2 MODULE 2.5 UNITS

This course provides the skills and knowledge needed for the fire fighter to take on increased leadership roles and responsibilities pertaining to fire department communications, rescue operations, and fire and life safety initiatives, preparedness and maintenance of power tools. Prerequisite: Completion of a state approved ALA or ARTP Firefighter 1 academy which includes IFSAC Proboard certification testing. This may be taken concurrently with the Firefighter 1 academy with instructor approval. 27 hours lecture, 54 hours laboratory.

Degree Applicable, Credit Grading Option: OP

FST 20 CO 2A HUMAN RESOURCE MANAGEMENT FOR COMPANY OFFICERS 2.5 UNITS

This course provides information on the use of human resources to accomplish assignments, evaluating member performance, supervising personnel, and integrating health and safety plans, policies, and procedures into daily activities as well as the emergency scene. This is a required course for any Firefighter within State Fire Training and certification track who is seeking promotion to the rank of Company Officer. This course follows all applicable mandates and content as identified by the CSFM State Fire Training description. Prerequisite: Must be a current fire fighter and meet educational requirements for Firefighter 1 and Firefighter 2 certifications. 45 hours lecture. Transfer: CSU; C-ID# FIRE 200 X.

Degree Applicable, Credit Grading Option: OP

FST 21 CO 2B GENERAL ADMINISTRATIVE FUNCTIONS FOR COMPANY OFFICERS 1.5 UNITS

This course provides information on general administrative functions and the implementation of department policies and procedures and addresses conveying the fire department's role, image, and mission to the public. Prerequisite: Must be a current fire fighter and meet educational requirements for Firefighter 1 and Firefighter 2 certifications. 27 hours lecture. Transfer: CSU; C-ID# FIRE 210.

Degree Applicable, Credit Grading Option: OP

FST 22 CO 2C FIRE INSPECTIONS AND INVESTIGATION FOR COMPANY OFFICERS 2.5 UNITS

This course provides information on conducting inspections, identifying hazards and addressing violations, performing a fire investigation to determine preliminary cause and securing the incident scene and preserving evidence. This course is a requirement for aspiring Firefighters seeking promotion as a company officer. Prerequisite: Must be a current fire fighter and meet educational requirements for Firefighter 1 and Firefighter 2 certifications. 45 hours lecture. Transfer: CSU; C-ID# FIRE 220.

Degree Applicable, Credit Grading Option: OP

FST 23 CO 2D ALL - RISK COMMAND OPERATIONS FOR COMPANY OFFICERS 2.5 UNITS

This course provides information on conducting incident size-up; developing and implementing an initial plan of action involving single and multi-unit operations for various types of emergency incidents to mitigate the situation following agency safety procedures; conducting pre-incident planning; and develop and conduct a post incident analysis. Prerequisite: Must be a current fire fighter and meet educational requirements for Firefighter 1 and Firefighter 2 certifications. 45 hours lecture. Transfer: CSU; C-ID# FIRE 230 X.

Degree Applicable, Credit Grading Option: OP

FST 24 CO 2E WILDLAND INCIDENT OPERATIONS FOR COMPANY OFFICERS 2.5 UNITS

This course provides information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wildland fire, establishing an incident command post, creating an incident action plan, and completing incident records and reports. Prerequisite: Must be a current fire fighter and meet educational requirements for Firefighter 1 and Firefighter 2 certifications. 45 hours lecture. Transfer: CSU; C-ID# FIRE 240 X.

Degree Applicable, Credit Grading Option: OP

FST 25 INSTRUCTOR 1 2.5 UNITS

Provides skills and knowledge needed for entry-level professional instructor to perform his or her duties safely, effectively, and competently. The curriculum is based on the 2012 edition of NFPA 1041 Standard for Fire Service Instructor Professional Qualifications. At the end of this course, candidates for Instructor I certification will be able to teach and deliver instruction from a prepared lesson plan utilizing instructional aids and evaluation instruments. The Instructor I will also be able to adapt a lesson plan and complete the reporting requirements to the local jurisdiction. Prerequisite: Must be a current fire fighter and meet educational requirements for Firefighter 1 and Firefighter 2 certifications. 45 hours lecture. Transfer: CSU; C-ID# FIRE 250 X.

Degree Applicable, Credit Grading Option: OP

FST 26 ETHICAL LEADERSHIP FOR 0.5 UNITS

**FIRE AND EMERGENCY
SERVICES INSTRUCTORS**

This course provides the knowledge and skills needed to identify the value of ethical behavior in instructional settings, describe how ethical norms influence individual ethics, identify a personal ethical perspective and core values and how they impact communication and ethical decision making, and make an ethical decision using an ethical decision-making model, in order to assist in making ethical decisions when faced with an ethical dilemma in an instructional setting and carry out the roles and responsibilities of an SFT instructor in an ethical manner. 9 hours lecture. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

FST 30 BASIC FIREFIGHTER SKILLS AND UPDATE 2 UNITS

This course is designed for currently employed and volunteer Firefighters and covers fire service topics in a classroom and manipulative setting that includes required skills maintenance and updated tactical techniques. All subjects relate to the duties and responsibilities of the fire services in order to maintain a state of readiness. Course may be repeated to cover legally mandated training and new techniques. Prerequisite: Must be a current volunteer or paid fire fighter who has passed an ARTP or ALA fire fighter academy with a letter from the department head indicating student's status. 18 hours lecture, 54 hours laboratory.

Degree Applicable, Credit Grading Option: OP

FST 31 INTERMEDIATE FIREFIGHTER SKILLS AND UPDATE 2 UNITS

This course is designed for currently employed and volunteer Firefighters and covers Intermediate fire service topics in a classroom and manipulative setting that includes required skills maintenance and updated tactical techniques. All Intermediate subjects relate to the duties and responsibilities of the fire services in order to maintain a state of readiness. Course may be repeated to cover legally mandated training and new techniques. Prerequisite: Must be a current volunteer or paid fire fighter who has passed an ARTP or ALA fire fighter academy with a letter from the department head indicating student's status. 18 hours lecture, 54 hours laboratory.

Degree Applicable, Credit Grading Option: OP

FST 32 ADVANCED HAZMAT AND WILDLAND TRAINING FOR FIREFIGHTERS 2 UNITS

This course is designed for currently employed and volunteer Firefighters and covers advanced Hazmat and Wildland topics, updates, and manipulative skills. All advanced subjects relate to the duties and responsibilities of the fire services in order to maintain a state of readiness. Course may be repeated to cover legally mandated training and new techniques. Prerequisite: Must be a current volunteer or paid fire fighter who has passed an ARTP or ALA fire fighter academy with a letter from the department head indicating student's status. 18 hours lecture, 54 hours laboratory.

Degree Applicable, Credit Grading Option: OP

FRENCH

The French program offers primarily first and second-year transfer-level courses designed to prepare students to continue with their language studies in upper-division courses after leaving Las Positas College. In addition, there is an emphasis on learning about the cultures of French-speaking people.

French Courses (FREN)

FREN 1A BEGINNING FRENCH 5 UNITS

This introductory level course will enable students to begin speaking, reading and writing elementary level French as well as understanding the spoken language. Students are introduced to concepts of grammar, vocabulary and verb tenses in a variety of auditory, visual and written contexts. Strongly Recommended: Eligibility for ENG 1A. 90 hours lecture. AA/AS GE: IB. Transfer: CSU, UC; IGETC: 6A.

Degree Applicable, Credit Grading Option: OP

FREN 1B ELEMENTARY FRENCH 5 UNITS

This is the second semester of the introductory level course and will enable students to continue learning to speak, read and write elementary level French as well as to understand the spoken language. Students are introduced to concepts of grammar, vocabulary and verb tenses in a variety of auditory, visual and written contexts. Prerequisite: FREN 1A with a minimum grade of C or appropriate skill level demonstrated through the assessment process. 90 hours lecture. AA/AS GE: IB. Transfer: CSU, UC; IGETC: 6A.

Degree Applicable, Credit Grading Option: OP

FREN 2A INTERMEDIATE FRENCH I 4 UNITS

In this course students will review grammar from the intermediate level and continue to more advanced topics. Reading of a work or works of modern authors. Intensified focus on conversation and composition. Prerequisite: FREN 1B with a minimum grade of C. 72 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B, 6A.

Degree Applicable, Credit Grading Option: OP

FREN 2B INTERMEDIATE FRENCH II 4 UNITS

Reading of French authors; advanced review of grammar; emphasis on speaking and composition. Prerequisite: FREN 2A with a minimum grade of C. 72 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B, 6A.

Degree Applicable, Credit Grading Option: OP

GEOGRAPHY

Geography is the science of place and space. Geographers ask where things are located on the surface of the earth, why they are located where they are, how places differ from one another, and how people interact with the environment. There are two main branches of geography; human geography and physical geography. Human geography is concerned with the spatial aspects of human existence – how people and their activity are distributed in space, how they use and perceive space, and how they create and sustain the places that make up the earth’s surface. Human geographers work in the field of urban and regional planning, transportation, marketing, real estate, tourism and international business. Physical geographers study patterns of weather and climate, landforms, vegetation, soils and water. They forecast the weather, manage land and water resources, and analyze and plan for forests, rangelands, and wetlands.

Many human and physical geographers have skills in cartography and Geographic Information Systems (GIS) study the linkages between human activity and natural systems, and are active in the study of global warming, desertification, deforestation, loss of biodiversity, groundwater pollution, and flooding.

Programs of Study

Degrees:

- AA-T – Geography

AA-T – Geography

About the Degree

The Greek derivation of the word geography is "earth description." Geography studies natural features such as mountain ranges, rivers, valleys, forests, deserts, and grasslands, as well as man-made features such as cities, roads, dams, and bridges. Geography is truly an integrated discipline. It helps us to understand our natural environment and its capacity to maintain life. Is this capacity of supporting human civilization unlimited? If not, how much more can we abuse our physical environment without diminishing its capacity to sustain life? Geography is central to an understanding of the international global arena and provides an exciting and challenging way to examine our planet. The Associate in Arts in Geography for Transfer is designed for prospective California State University (CSU) transfer students who are preparing for careers in the field of Geography. Completion of the Associate in Arts in Geography Transfer degree will provide a streamlined pathway for transfer to a CSU campus with a Geography or similar major. Students should consult with a counselor to determine whether or not this degree is the best option for their transfer goals.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

- a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education - Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT’s) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AA-T in Geography, students are able to assemble and analyze spatial information (maps, data, surveys, qualitative observations, etc), using traditional and modern mapping technology methods.
- Upon completion of the AA-T in Geography, students are able to demonstrate knowledge of global physical and environmental processes, locations and develop an appreciation of landscapes.

Required Core: (7 Units)

GEOG 1 (Introduction to Physical Geography)	3
GEOG 1L (Introduction to Physical Geography Laboratory)	1
GEOG 2 (Cultural Geography) or GEOG 5 (World Regional Geography)	3

List A: Select Two (6 Units)

Any Required Core course not already used	3
GEOG 8 (Introduction to Atmospheric Science)	3
GEOG 12 (Geography of California)	3
GEOG 15 (Introduction to GIS)	3

List B: Select Two (6-7 Units)

Any List A course not already used	3
ANTR 3 (Cultural Anthropology)	3
GEOL 1 (Physical Geology)	3
MATH 40 (Statistics and Probability)	4

Total Units for the Major 19-20

Additional General Education and Elective Units 40-41

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Geography Courses (GEOG)

GEOG 1 INTRODUCTION TO PHYSICAL GEOGRAPHY 3 UNITS

This course is a spatial study of the Earth's dynamic physical system and processes. Topics include: Earth-sun geometry, weather, climate, water, landforms, soil, and the biosphere with emphasis on spatial characteristics, change over time, interactions between environmental components, and human-environment interactions. Tools of geographic inquiry are also briefly covered; they include maps, remote sensing, Geographic Information Systems (GIS) and Global Positioning Systems (GPS). 54 hours lecture. AA/AS GE: II, IV. Transfer: CSU, UC; CSU GE: B1; IGETC: 5A; C-ID# GEOG 110, GEOG 115 (if taken with GEOG 1L).

Degree Applicable, Credit Grading Option: GR

GEOG 1L INTRODUCTION TO PHYSICAL GEOGRAPHY LABORATORY 1 UNIT

This course is designed to provide supplemental exercises in topics covered in physical geography lecture. Lab experience will include map analysis and interpretation, weather prognostication, landform processes and evolution, tectonics, biogeography, and habitat analysis. Prerequisite: GEOG 1 with a minimum grade of C (May be taken concurrently). 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B3; IGETC: 5C; C-ID# GEOG 111, GEOG 115 (if taken with GEOG 1).

Degree Applicable, Credit Grading Option: GR

GEOG 2 CULTURAL GEOGRAPHY 3 UNITS

The course is a study of diverse human populations, their cultural origins, diffusion and contemporary spatial expressions. Topics include: demography, languages and religions, urbanization and landscape modification, political units and nationalism, and economic systems and development. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D5; IGETC: 4E; C-ID# GEOG 120.

Degree Applicable, Credit Grading Option: GR

GEOG 5 WORLD REGIONAL GEOGRAPHY 3 UNITS

Survey of the world's culture regions and nations as interpreted by geographers, including physical, cultural, and economic features. Emphasis on spatial and historical influences on population growth, transportation networks, and natural environments. Identification and importance of the significant features of regions. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D5; IGETC: 4E; C-ID# GEOG 125.

Degree Applicable, Credit Grading Option: GR

GEOG 8 INTRODUCTION TO ATMOSPHERIC SCIENCE 3 UNITS

Introduction to the Earth's atmosphere: topics include atmospheric structure and composition, solar radiation and energy balances, temperature, seasonal changes, atmospheric moisture, clouds and fog, precipitation, air pressure, winds, air masses and fronts, cyclones, weather forecasting, climate and climate change. 54 hours lecture. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B1; IGETC: 5A; C-ID# GEOG 130.

Degree Applicable, Credit Grading Option: GR

GEOG 12 GEOGRAPHY OF CALIFORNIA 3 UNITS

A thematic approach to the state's issues, processes and topics relevant

to geography including climate, landforms, natural vegetation, water resources, cultural landscape, ethnic diversity, urban and agricultural regions, and the economy. This course explores the physical and human landscapes that have evolved as a result of the human-environment interface. 54 hours lecture. AA/AS GE: II, IV. Transfer: CSU, UC; CSU GE: B1, D5; IGETC: 4E, 5A; C-ID# GEOG 140.

Degree Applicable, Credit Grading Option: GR

GEOG 15 INTRODUCTION TO GIS 3 UNITS

Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Identification and acquisition of GIS data. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS). Spatial analysis and modeling with GIS. 54 hours lecture. AA/AS GE: II, IV. Transfer: CSU, UC; CSU GE: D5; C-ID# GEOG 155.

Degree Applicable, Credit Grading Option: GR

GEOLOGY

Geology is the study of the Earth, its features and processes. Geology affects populations worldwide through earthquakes, volcanic events, natural resource mining and management, soils, water resources, and more. Geologic areas of study include volcanoes; earthquakes and seismology; the Geologic Time Scale and the formation of the earth; petrology (rocks) and minerals; hydrology; erosion; oceanography, including beach systems; environmental geology (resources, hazards, etc.); glaciers and Ice Ages; groundwater; deserts, and extra-terrestrial planets. The Las Positas College Geology Program features lectures and laboratories for both Geology majors and non-science majors.

Programs of Study

Degrees:

- AS-T - Geology

Certificates of Achievement:

- Geology
- Geology Major

Career Opportunities

With further study, students can pursue geologic specialties which include geologic mapping, earthquakes and seismology, vulcanology, hydrology, earth resources and environmental impacts, paleontology, glaciology, petrology and mineralogy, mass wasting (landslides and slope stability), marine geology, paleoclimatology, soil science, the geology of other planets, etc. Geologic and engineering firms have geologists on staff working on geologic mapping, hazard assessment/evaluation, water resource planning, etc. At research facilities such as Sandia and LLNL, geologists work on projects such as modeling the earth's interior, studying climate change, groundwater remediation, etc. The USGS, CGS, NOAA, NASA, EPA, and the U.S. Army Corps of Engineers have geologists on staff, as do museums, colleges, and universities.

AS-T – Geology

About the Degree

The Las Positas College Geology program offers courses that lead to an Associate in Science in Geology for Transfer degree. The major requirements for the Associate in Science in Geology for Transfer degree align with the Intersegmental Transfer Model Curriculum (TMC) for Geology. Students will have guaranteed admission to a California State University (CSU) campus upon successful completion of the program requirements. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education - Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AS-T in Geology, students are able to demonstrate proficiency in basic earth processes (e.g., plate tectonics).
- Upon completion of the AS-T in Geology, students are able to demonstrate proficiency in the evaluation and identification of basic earth materials (e.g., rocks and minerals).

Required Core: (28 Units)

CHEM 1A (General College Chemistry I).....	5
CHEM 1B (General College Chemistry II).....	5
GEOL 1 (Physical Geology)	3
GEOL 1L (Physical Geology Laboratory).....	1
GEOL 2 (Historical Geology with Lab)	4
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II)	5

Total Units for the Major 28

Additional General Education and Elective Units 32

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The

number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Geology

About the Certificate

This Certificate of Achievement in Geology signifies that students have received basic knowledge in geological sciences and skills, which facilitate paraprofessional employment such as geological technician and geological field assistant. The certificate also provides a good foundation for continued study in the field of geology.

Program Outcomes

- Upon completion of the Certificate of Achievement in Geology, students are able to demonstrate proficiency in fundamental global earth processes (e.g., plate tectonics, earthquakes, volcanoes, etc.)
- Upon completion of the Certificate of Achievement in Geology, students are able to demonstrate proficiency with geologic analysis and/or geologic tools (e.g., unraveling the chronology of geologic events, earth materials identification/evaluation, etc.)

Required Core: Select Four (12-13 Units)

GEOL 1 (Physical Geology)	3
GEOL 2 * (Historical Geology with Lab).....	4
GEOL 5 (Environmental Geology: Hazards & Disasters).....	3
GEOL 7 (Environmental Geology: Resources, Use Impact & Pollution)	3
GEOL 12 (Introduction to Oceanography).....	3

List A: Select One, Unless GEOL 2 is Completed (0-1 Units)

GEOL 1L (Physical Geology Laboratory).....	1
GEOL 12L (Intro to Oceanography Lab).....	1

Total Units 13

** If GEOL 2 is selected List A is not required*

Certificate of Achievement Geology Major

About the Certificate

The Geology Major Certificate of Achievement is designed for geology students working towards completing lower-division transfer courses that apply towards four-year Geology baccalaureate programs. The courses in this program satisfy lower division requirements at most 4-year universities and colleges. Students should work with academic counselors at both Las Positas and their transferring institutions with regards to the full breadth and scope of the courses that students should complete for their baccalaureate degree.

Program Outcomes

- Upon completion of the Certificate of Achievement in Geology Major, students are able to demonstrate proficiency in geologic processes and concepts (e.g., plate tectonics, earthquakes, volcanoes, landslides, hydrology, geochronology, etc).
- Upon completion of the Certificate of Achievement in Geology Major, students are able to demonstrate proficiency with geologic analysis and/or geologic tools (e.g., mineralogy, petrology, topography and/or geologic maps and structures, unraveling the chronology of geologic events, earth materials identification/evaluation, etc.).

Required Core: (17 units)

CHEM 1A (General College Chemistry I).....	5
GEOL 1 (Physical Geology)	3
GEOL 2 (Historical Geology with Lab)	4
MATH 1 (Calculus I).....	5

Total Units 17

Geology Courses (GEOL)

GEOL 1 PHYSICAL GEOLOGY 3 UNITS

The Earth, its materials, its internal and external processes, and its development through time. Emphasis is placed on a thorough global understanding of Plate Tectonics as a framework and foundation for subsequent geologic topics and concepts. Topics include volcanoes, earthquakes and seismology, the Geologic Time Scale and the formation of the earth, rocks and minerals, hydrology, erosion, beach systems, environmental geology, glaciation, groundwater, etc. Course content includes the historical development of key geologic concepts. This is the foundation course for almost all subsequent geology courses for both geology majors and non-majors. 54 hours lecture. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B1; IGETC: 5A; C-ID# GEOL 100.

Degree Applicable, Credit Grading Option: OP

GEOL 1L PHYSICAL GEOLOGY LABORATORY 1 UNIT

Laboratory course to supplement the physical geology lecture course. Introduction to the materials and techniques of geology. Includes minerals, rocks, topographic and geologic maps, structural geology, identification and interpretation of landforms, geologic time and relative age dating analysis, etc. Prerequisite: GEOL 1 with a minimum grade of C (May be taken concurrently) or GEOL 5 with a minimum grade of C (May be taken concurrently) or GEOL 7 with a minimum grade of C (May be taken concurrently). 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B3; IGETC: 5C; C-ID# GEOL 100 L.

Degree Applicable, Credit Grading Option: OP

GEOL 2 HISTORICAL GEOLOGY WITH LAB 4 UNITS

An introduction to Earth's history and the life it supports with a laboratory. Subjects include geologic dating, plate tectonics, stratigraphy, fossils, biological evolution, the planet's origin and the

processes that have influenced paleogeography during the past 4.6 billion years. Strongly Recommended: GEOL 1 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# GEOL 111.

Degree Applicable, Credit Grading Option: OP

GEOL 5 ENVIRONMENTAL GEOLOGY: 3 UNITS HAZARDS & DISASTERS

Understanding and planning for the effects of natural hazards and disasters on the earth, the ecosystem and human populations. Content covers the basic natural hazard processes, where and why they occur, as well as considerations for environmental land-use planning. Environmental hazards studied include earthquakes, volcanoes, river systems (including floods and dams), landslides, coastal erosion, tsunamis, sinkholes, etc. 54 hours lecture. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B1; IGETC: 5A; C-ID# GEOL 130 (if taken with GEOL 7)

Degree Applicable, Credit Grading Option: OP

GEOL 7 ENVIRONMENTAL GEOLOGY: 3 UNITS RESOURCES, USE IMPACT & POLLUTION

Understanding how and where Earth's environmental resources are created and located, and then studying how the resources are accessed and utilized. Topics include rock and mineral resources, energy resources (including fossil fuel and non-fossil fuel resources), water (including rivers, reservoirs, groundwater, etc.), waste disposal (including water and air pollution), global climate changes (including the greenhouse effect), etc. 54 hours lecture. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B1; IGETC: 5A; C-ID# GEOL 130 (if taken with GEOL 5)

Degree Applicable, Credit Grading Option: OP

GEOL 12 INTRODUCTION TO OCEANOGRAPHY 3 UNITS

Introduction to the oceans, the history of oceanic science, instrumentation and exploration; marine geology including plate tectonics and shoreline processes; physical and chemical properties of sea water; causes and effects of currents, tides, and waves; introduction to the basic types of marine life, the basic marine habitats and ecosystems; distribution of marine resources and the Law of the Sea. 54 hours lecture. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B1; IGETC: 5A.

Degree Applicable, Credit Grading Option: OP

GEOL 12L INTRODUCTION TO OCEANOGRAPHY LAB 1 UNIT

Laboratory course to supplement the oceanography lecture course. Introduction to the materials and techniques of oceanic science. Includes sea floor rocks, oceanic geography, bathymetric maps, seismic reflection, seawater physics and chemistry, beach sand, tides, waves, marine life and marine fossils, sea floor spreading rates, etc. Prerequisite: GEOL 12 with a minimum grade of C (May be taken concurrently). 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B3; IGETC: 5C.

Degree Applicable, Credit Grading Option: GR

GEOL 20 EARTH SCIENCE FOR EDUCATORS 4 UNITS

An introduction to the essentials of Earth Science with a laboratory. Topics include the geosphere, atmosphere, hydrosphere, and solar system. This course focuses on the interactions between physical and chemical systems of the Earth such as the tectonic cycle, rock cycle, hydrologic cycle, weather and climate. 54 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# GEOL 121.

Degree Applicable, Credit Grading Option: OP

GLOBAL STUDIES

The Global Studies program is committed to providing students with a deep understanding of human cultures, behavior, and society and a transnational understanding of the central issues facing our world today. Students will also develop cross-cultural competencies, learning to balance personal and cultural beliefs with different ways of thinking, understand and work through conflict, and navigate cross-cultural interaction in their communities, work relationships, civic life, and travel experiences. Faculty in the program support students' development of expertise in the kinds of critical thinking, reading, and writing demanded by different disciplines as well as facility with interdisciplinary thinking.

Programs of Study

Degrees:

- AA-T - Global Studies

Career Opportunities

Students who take courses in the program will enjoy a broad, interdisciplinary education that will prepare them to work in diverse settings in diverse types of places, whether close to home, in major urban centers, or in other countries. Global Studies majors, with further study, go into a variety of fields, including politics, government, law, international business, academics, advocacy, journalism, non-profit work, publishing, the arts, research, and more. Understanding the global dimensions of societal developments and challenges will boost students' critical thinking skills and make them valuable assets to future employers.

AA-T – Global Studies

About the Degree

The Associate in Arts for Transfer in Global Studies provides the student with the skills to navigate today's globalized world, where people of different cultures, nations, and world views are coming into contact more than ever before. The major will help students recognize and respond to this cultural interconnectedness through courses devoted to the study of cultures and societies, economic and political systems, geography, and language. Students will develop the skills of balancing personal and cultural beliefs with different

ways of thinking, understanding and working through conflict, and increasing their comfort with cross-cultural interaction in their communities, work relationships, civic life, and travel experiences. Understanding the global dimensions of societal developments and challenges will boost students' critical thinking skills and make them valuable assets to future employers. Students completing the Associate in Arts in Transfer in Global Studies degree receive a guarantee of admission with junior status into the California State University System. CSU is required to grant priority admission for a student with this associate degree "to a CSU campus and to a program or major that is similar to their community college major or area of emphasis, as determined by the CSU campus to which the student is admitted."

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education - Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C" (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of an AA-T in Global Studies, students are able to apply cross-cultural, transnational, and global awareness to analysis of conflicts and challenges involving race, gender, human rights, cultural differences, and economic development.
- Upon completion of an AA-T in Global Studies, students are able to assess the benefits and costs of globalization to various classes, regions, nations, and ethnic groups across the globe.
- Upon completion of an AA-T in Global Studies, students are able to demonstrate knowledge of world's cultures, languages, art, geography, climate, social and political systems.
- Upon completion of an AA-T in Global Studies, students are able to use social scientific and humanist modes of analysis to relate and differentiate between cultures.

Required Core: (6 Units)

- GS 1 (Introduction to Global Studies) or
SOC 5 (Introduction to Global Studies).....3
GS 2 (Global Issues)3

List A: Select Five Courses from at least Four of the Following Areas (15-17 Units)

Area 1: Culture and Society

- ANTR 3 (Cultural Anthropology)3

Area 2: Geography

GEOG 1 (Introduction to Physical Geography).....3
 GEOG 2 (Cultural Geography).....3
 GEOG 5 (World Regional Geography)3

Area 3: Economics

ECON 2 (Principles of Macroeconomics)3

Area 4: Politics

POLI 20 (Comparative Government).....3
 POLI 30 (International Relations).....3

Area 5: Humanities

ENG 41 (Modern World Literature)3
 FREN 2A (Intermediate French I)4
 FREN 2B (Intermediate French II)4
 SPAN 2A (Intermediate Spanish I)4
 SPAN 2B (Intermediate Spanish II)4

Total Units for the Major 21-23

Additional General Education and Elective Units..... 37-39

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Global Studies Courses (GS)

GS 1 INTRODUCTION TO GLOBAL STUDIES 3 UNITS

This course looks at the economic and political forces that have led to rapid changes in global interaction and culture over the past century, with special emphasis on the last twenty years. It explores the issues of nationalism, global citizenry, state violence, terrorism, the global economy, migration, the threatened environment, technology, and the role of multinational media industries on culture. Students who have completed, or are enrolled in, SOC 5 may not receive credit. Strongly Recommended: SOC 1 with a minimum grade of C, ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D; IGETC: 4; C-ID# GLST 101.

Degree Applicable, Credit Grading Option: GR

GS 2 GLOBAL ISSUES 3 UNITS

This course introduces students to the origins, current status, and future trends of major transnational issues confronting the global community. Topics can include population trends, economic development and inequality, basic human needs (for food, water health care), human rights, international conflict and security concerns, and environmental problems. The course also focuses on global governance, including the study of collective global responsibilities. Strongly Recommended: ENG 104 with a minimum

grade of P. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D, IGETC: 4; C-ID# GLST 102.

Degree Applicable, Credit Grading Option: GR

GRAPHIC DESIGN & DIGITAL MEDIA

The Graphic Design & Digital Media program teaches students to apply graphic design and digital media principles to create effective communication pieces through the use of color, type, and imagery.

Students learn the principles of design and composition, typography, digital image manipulation, print and web page layout, and an array of technical skills using Adobe’s Creative Suite—Illustrator, Photoshop, InDesign, and Acrobat. In the web program, students will also learn to use Dreamweaver to work with HTML and CSS.

Students will not only work with the latest digital tools for creating captivating images and graphics, but will also learn how to effectively use the concepts and principles of design using colors, typography, and composition in developing their work.

In both the AA and certificate program, students learn production techniques and produce client-based work for print, web and multimedia. Upon completion of the program, students will have prepared a professional-level portfolio and be ready to go out into the workforce. Degree graduates often transfer to a four-year college.

Please visit our website for more information About the Department: <http://laspositascollege.edu/gddm/>

Programs of Study

Degrees:

- AA – Graphic Design

Certificates of Achievement:

- Digital Illustration
- Graphic Design
- Print Design
- Web & Interaction Design

Career Opportunities

Students who graduate from the Graphic Design & Digital Media program can look forward to, with future experience or study, working as art directors, graphic designers, web designers, user interface designers, layout artists, and graphic artists.

AA – Graphic Design

About the Degree

The Associate of Arts of Graphic Design is designed to prepare

students for work in the graphic design profession. The course work will prepare students to undertake a position in an advertising agency, creative services team, design studio, in-house design team, print shop, or web development firm.

Career Opportunities

Graphic Artist; Production Artist; Graphic Designer; Visual Designer; Senior Designer; Web Designer; Freelance Designer; Art Director; Creative Director; Creative Services Manager; User Interface Designer; User Experience Designer.

Program Outcomes

- Upon completion of the AA in Graphic Design, students are able to effectively conceptualize, create and deliver design solutions for the intended audience.
- Upon completion of the AA in Graphic Design, students are able to critically evaluate quality and effectiveness of design projects, present one’s work effectively, and incorporate critique and feedback into design iterations.
- Upon completion of the AA in Graphic Design, students are able to describe the history and application of design and how color, type, and other design elements are used as effective communications tools.
- Upon completion of the AA in Graphic Design, students are able to use industry-standard software with technical proficiency and create documents to required specifications for delivery to clients.

Required Core: (30 Units)

GDDM 51 (Color Theory) or ARTS 26 (Color Theory)	3
GDDM 52 (Introduction to Typography)	3
GDDM 53 (Photoshop I)	3
GDDM 54 (Illustrator I).....	3
GDDM 56 (Introduction to Graphic Design).....	3
GDDM 57 (Branding and Identity Design)	3
GDDM 58 (Photoshop II).....	3
GDDM 59 (Illustrator II).....	3
GDDM 60 (Creative Portfolio Development & Self Promotion)	3
GDDM 64 (InDesign I).....	3

List A: Select One (3 Units)

GDDM 2 (Wordpress and Content Management Systems)	3
GDDM 3 (The History of Modern Design)	3
GDDM 4 (User Interface and User Experience Design)	3
GDDM 40 (Design Shop: The Business of Design)	3
GDDM 55 (Web Design I)	3
GDDM 65 (Elect Prepress/Print Prod).....	3
GDDM 67 (InDesign II).....	3
GDDM 68 (Creative Portfolio Preparation)	3
GDDM 70 (Photoshop and Lightroom for Photographers).....	3

Total Units for the Major 33

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General

Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

**Certificate of Achievement
Digital Illustration**

About the Certificate

The Certificate of Achievement in Digital Illustration will prepare students to work on and create traditional illustrations for magazines, newspapers and children’s book or storyboards, scenery, characters, and concept art for video games and multimedia.

Career Opportunities

Children’s Book Illustrator; Illustrator; Concept Artist; Character Designer; Layout Artist; Graphic Artist; Production Artist; Graphic Designer; Visual Designer; Senior Designer; Web Designer; Freelance Designer; Art Director; Creative Director; Creative Services Manager.

Program Outcomes

- Upon completion of the Certificate of Achievement in Digital Illustration, students are able to apply principles of design to effectively conceptualize, create and deliver design solutions for the intended audience.
- Upon completion of the Certificate of Achievement in Digital Illustration, students are able to critically evaluate quality and effectiveness of design projects, present one’s work effectively, and incorporate critique and feedback into design iterations.
- Upon completion of the Certificate of Achievement in Digital Illustration, students are able to describe the history and application of design and how color, type, and other design elements are used as effective communications tools.
- Upon completion of the Certificate of Achievement in Digital Illustration, students are able to use industry-standard software with technical proficiency and create documents to required specifications for delivery to clients.

Required Core: (21 Units)

ARTS 2A (Introduction to Drawing)	3
GDDM 45A (Digital Painting I).....	3
GDDM 45B (Digital Painting II).....	3
GDDM 51 (Color Theory) or ARTS 26 (Color Theory)	3
GDDM 53 (Photoshop I)	3
GDDM 54 (Illustrator I).....	3
GDDM 60 (Creative Portfolio Development & Self Promotion)	3

List A: Select Two (6 Units)

ARTS 7A (Introduction to Watercolor Painting).....	3
ARTS 12A (Oil/Acrylic Painting: Beginning I).....	3
GDDM 58 (Photoshop II).....	3
GDDM 59 (Illustrator II).....	3

List B: Select One (3 Units)

ARTS 23 (2-D Design).....	3
GDDM 56 (Introduction to Graphic Design).....	3

Total Units 30

Certificate of Achievement Graphic Design

About the Certificate

The Certificate of Achievement in Graphic Design is designed to prepare the students for work in the graphic design profession. The degree gives the students the knowledge and experience to enter the graphic design profession as a member of an advertising agency, creative services team, design studio, in-house design team, print shop, or web development firm.

Career Opportunities

Graphic Artist; Production Artist; Graphic Designer; Visual Designer; Senior Designer; Web Designer; Freelance Designer; Art Director; Creative Director; Creative Services Manager; User Interface Designer; User Experience Designer.

Program Outcomes

- Upon completion of the Certificate of Achievement in Graphic Design, students are able to apply principles of design to effectively conceptualize, create and deliver design solutions for the intended audience.
- Upon completion of the Certificate of Achievement in Graphic Design, students are able to critically evaluate quality and effectiveness of design projects, present one's work effectively, and incorporate critique and feedback into design iterations.
- Upon completion of the Certificate of Achievement in Graphic Design, students are able to describe the history and application of design and how color, type, and other design elements are used as effective communications tools.
- Upon completion of the Certificate of Achievement in Graphic Design, students are able to use industry-standard software with technical proficiency and create documents to required specifications for delivery to clients.

Required Core: (30 Units)

GDDM 51 (Color Theory) or ARTS 26 (Color Theory).....	3
GDDM 52 (Introduction to Typography).....	3
GDDM 53 (Photoshop I).....	3
GDDM 54 (Illustrator I).....	3
GDDM 56 (Introduction to Graphic Design).....	3
GDDM 57 (Branding and Identity Design).....	3

GDDM 58 (Photoshop II).....	3
GDDM 59 (Illustrator II).....	3
GDDM 60 (Creative Portfolio Development & Self Promotion).....	3
GDDM 64 (InDesign I).....	3

List A: Select One (3 Units)

GDDM 2 (Wordpress and Content Management Systems).....	3
GDDM 3 (The History of Modern Design).....	3
GDDM 4 (User Interface and User Experience Design).....	3
GDDM 40 (Design Shop: The Business of Design).....	3
GDDM 65 (Elect Prepress/Print Prod).....	3
GDDM 67 (InDesign II).....	3
GDDM 68 (Creative Portfolio Preparation).....	3
GDDM 70 (Photoshop and Lightroom for Photographers).....	3

Total Units 33

Certificate of Achievement Print Design

About the Certificate

The Certificate of Achievement in Print Design is designed to prepare the students for work in the graphic design profession with an emphasis on print and prepress experience. The certificate gives students the knowledge and experience to enter the graphic design profession as a member of an advertising agency, creative services team, design studio, in-house design team, prepress shop, or print shop.

Career Opportunities

Prepress Technician; Press operator; Print Designer; Graphic Artist; Production Artist; Graphic Designer; Visual Designer; Senior Designer; Web Designer; Freelance Designer; Art Director; Creative Director; Creative Services Manager.

Program Outcomes

- Upon completion of the Certificate of Achievement in Print Design, students are able to apply principles of design to effectively conceptualize, create and deliver design solutions for the intended audience.
- Upon completion of the Certificate of Achievement in Print Design, students are able to critically evaluate quality and effectiveness of design projects, present one's work effectively, and incorporate critique and feedback into design iterations.
- Upon completion of the Certificate of Achievement in Print Design, students are able to describe the history and application of design and how color, type, and other design elements are used as effective communications tools.
- Upon completion of the Certificate of Achievement in Print Design, students are able to use industry-standard software with technical proficiency and create documents to required specifications for delivery to clients.

Required Core: (27 Units)

GDDM 51 (Color Theory) or

ARTS 26 (Color Theory)	3
GDDM 52 (Introduction to Typography)	3
GDDM 53 (Photoshop I)	3
GDDM 54 (Illustrator I).....	3
GDDM 56 (Introduction to Graphic Design).....	3
GDDM 59 (Illustrator II).....	3
GDDM 60 (Creative Portfolio Development & Self Promotion)	3
GDDM 64 (InDesign I).....	3
GDDM 65 (Elect Prepress/Print Prod).....	3

List A: Select Two (6 Units)

GDDM 3 (The History of Modern Design)	3
GDDM 40 (Design Shop: The Business of Design)	3
GDDM 57 (Branding and Identity Design)	3
GDDM 58 (Photoshop II).....	3
GDDM 67 (InDesign II).....	3
GDDM 68 (Creative Portfolio Preparation)	3

Total Units 33



About the Certificate

The Certificate of Achievement in Web & Interaction Design is designed to prepare students for work in the design profession with an emphasis on developing interactive elements for web and mobile devices. The certificate prepares students to work for variety of clients working in diverse industries to design, create and maintain websites and design web and mobile applications.

Career Opportunities

User Interface Designer, User Experience Designer; Graphic Artist; Production Artist; Graphic Designer; Visual Designer; Senior Designer; Web Designer; Freelance Designer; Art Director; Creative Director; Creative Services Manager.

Program Outcomes

- Upon completion of the Certificate of Achievement in Web & Interaction Design, students are able to apply principles of design to effectively conceptualize, create and deliver design solutions for the intended audience.
- Upon completion of the Certificate of Achievement in Web & Interaction Design, students are able to critically evaluate quality and effectiveness of design projects, present one’s work effectively, and incorporate critique and feedback into design iterations.
- Upon completion of the Certificate of Achievement in Web & Interaction Design, students are able to describe the history and application of design and how color, type, and other design elements are used as effective communications tools.
- Upon completion of the Certificate of Achievement in Web & Interaction Design, students are able to use industry-standard software with technical proficiency and create documents to required specifications for delivery to clients.

Required Core: (24 Units)

GDDM 2 (Wordpress and Content Management Systems)	3
GDDM 4 (User Interface and User Experience Design)	3
GDDM 51 (Color Theory) or ARTS 26 (Color Theory)	3
GDDM 53 (Photoshop I)	3
GDDM 54 (Illustrator I).....	3
GDDM 55 (Web Design I)	3
GDDM 56 (Introduction to Graphic Design).....	3
GDDM 60 (Creative Portfolio Development & Self Promotion)	3

List A: Select One (3 Units)

GDDM 3 (The History of Modern Design)	3
GDDM 40 (Design Shop: The Business of Design)	3
GDDM 62 (Web Design II).....	3
GDDM 63 (Website/Multimedia Production).....	3
GDDM 67 (InDesign II).....	3
GDDM 68 (Creative Portfolio Preparation)	3

Total Units 27

Graphic Design & Digital Media Courses (GDDM)

GDDM 2 WORDPRESS AND CONTENT MANAGEMENT SYSTEMS 3 UNITS

Students will use WordPress to build dynamic websites that can be updated easily. Students are also introduced to PHP & MySQL, theme customization, and other CMS frameworks. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 3 THE HISTORY OF MODERN DESIGN 3 UNITS

This introductory survey course focuses on the history, perception and development of design as an art form during the Twentieth Century. The students will develop an understanding of the evolution and role of the Modern Movement in society. The students will also learn about the evaluation criteria of two-dimensional and three dimensional design objects while examining examples of architecture, industrial design, graphic design and interior design. The students will be introduced to outstanding Twentieth Century design figures and their work. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit Grading Option: OP

GDDM 4 USER INTERFACE AND USER EXPERIENCE DESIGN 3 UNITS

In this course students are introduced to the fields of User Experience Design and Interface Design. Key topics covered in this course are interaction design, mobile and desktop interface design, information architecture, user research, as well as UX planning documents such as wireframes and personas. Students learn many of the principles, processes, and techniques used to develop effective user interfaces. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**GDDM 29 INDEPENDENT STUDY, 0.5-2 UNITS
GRAPHIC DESIGN & DIGITAL MEDIA**

For course information, see "Independent Studies". 27-108 hours laboratory.

**GDDM 40 DESIGN SHOP: THE BUSINESS 3 UNITS
OF DESIGN**

The Design Shop business of the Visual Communications program creates work for clients on the Las Positas College campus. This course is designed for students who are ready to produce client-based work in print and/or for the web prior to seeking employment and/or applying for transfer to a 4-year institution. Students work one-on-one or in a team with the client while refining leadership skills and the full range of visual, oral and written techniques needed to produce industry standard client-based work. Students develop creative print and/or web solutions that meet the full scope of the client's needs and that are of a quality that demonstrates the individual or team's work at industry-standard level. Strongly Recommended: GDDM 52 with a minimum grade of C, GDDM 53 with a minimum grade of C, GDDM 54 with a minimum grade of C, GDDM 55 with a minimum grade of C, GDDM 56 with a minimum grade of C, GDDM 57 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 45A DIGITAL PAINTING I 3 UNITS

Students will be introduced to fundamental techniques of digital painting as well as hardware and software considerations. Students will create paintings from observation as well as from imagination. Course will focus on translating traditional painting principals into the digital realm. Strongly Recommended: GDDM 53 with a minimum grade of C, ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 45B DIGITAL PAINTING II 3 UNITS

Students will build upon the fundamental techniques of digital painting. Students will create paintings from references as well as from imagination, paying close attention to lighting and color. Course will focus on development of style for commercial illustration. Prerequisite: GDDM 45A with a minimum grade of C. Strongly Recommended: ARTS 2A with a minimum grade of C, GDDM 53 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**GDDM 50 GRAPHIC DESIGN/DIGITAL 3 UNITS
MEDIA FUNDAMENTALS**

Introduction to Digital Art and Design Media and their use in the vocations of Graphic Design, Web and Device Design, Information Design, and Digital Art and Photography. An exploration of the methods of conceptual development of visual content and the language of design to direct the use of these digital tools at basic technical level to bring this content to completion in print or on screen. 27 hours lecture, 81 hours laboratory. Transfer: CSU, UC; C-ID# ARTS 250.

Degree Applicable, Credit Grading Option: OP

GDDM 51 COLOR THEORY 3 UNITS

A basic-level course highlighting color as an element for communication and expression in all visual fields. Covers key color systems and their relevance to graphic and other visual arts and creative and technical aspects of color. Students who have completed, or are enrolled in, ARTS 26 may not receive credit. 27 hours lecture, 81 hours laboratory. Transfer: CSU, UC; C-ID# ARTS 270.

Degree Applicable, Credit Grading Option: OP

**GDDM 52 INTRODUCTION TO 3 UNITS
TYPOGRAPHY**

This course examines letterforms and fundamental typographic principles, with emphasis on the vocabulary of typographic form and its relationship to message/purpose in graphic design. Typography is the backbone of graphic design, and the ability to design effectively with type is essential for a graphic designer. Course includes applied history and theory highlighting type as an element for communication and expression. In-class focus on type legibility, readability, and visual appropriateness. Strongly Recommended: GDDM 54 with a minimum grade of C, GDDM 64 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

GDDM 53 PHOTOSHOP I 3 UNITS

Technical and skill development course using the most recent version of Adobe Photoshop at the introductory to create and manipulate digital images, photographs and illustrations. Emphasis on basic to lower-intermediate level techniques and tools used to create image files suitable for print and screen. Design principles emphasized to create effective output through computer-based composition. Strongly Recommended: GDDM 50 with a minimum grade of C and/or GDDM 51 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 54 ILLUSTRATOR I 3 UNITS

Technical and drawing skill development course using the latest version of Illustrator at the basic- to intermediate- level to render 2- and 3-D digital drawings and illustrations. Emphasis on basic- to intermediate-level techniques and tools used to create image files suitable for print and screen. Design principles emphasized to create effective output through computer-based composition. Strongly Recommended: GDDM 50 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 55 WEB DESIGN I 3 UNITS

This introductory web design course takes a visual communications approach to the creation of web sites, and the fundamental techniques required to format text, illustrations, tables, and images for the web. Emphasis is placed on appropriate design for the web - beginning with a graphic user interface balanced with HTML5 code and CSS3 hand-coding that is functional, logical, and attractive, and bringing the concept to life using Dreamweaver. The course also includes detailed instructions on how to use Dreamweaver to create web

content, as well as an introduction to Content Management Systems such as Wordpress, Joomla! and Drupal. Strongly Recommended: GDDM 50 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 56 INTRODUCTION TO GRAPHIC DESIGN 3 UNITS

Design and skills development course exploring the creative processes, methods, strategies and tools used in developing concepts and final designs in any visual field including the basic elements of design: line, texture, value, shape, color, light, and spatial concepts. Emphasis is placed on experience applying design principles and conventions to create 2-dimensional work. Use of computers as digital design tool along with basic manual techniques relating to effective preparation, presentation, craftsmanship and professionalism in presentation. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 57 BRANDING AND IDENTITY DESIGN 3 UNITS

Students in this course will learn the process of brand development and implementation. From research and analysis through launch and governance, the course covers all aspects of the process and the best practices that build better brands. Prerequisite: GDDM 56 with a minimum grade of C and GDDM 53 with a minimum grade of C or GDDM 54 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 58 PHOTOSHOP II 3 UNITS

Technical and design skill development course using Photoshop to create and manipulate images, illustrations, text and animations. Emphasis on intermediate- through advanced-level techniques and tools used to create photo-realistic composites, special effects, custom brushes, and Photoshop rendered imagery for print and screen. Prerequisite: GDDM 53 with a minimum grade of C. Strongly Recommended: GDDM 50 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 59 ILLUSTRATOR II 3 UNITS

Students in this course will use advanced features in Adobe Illustrator to create a number of illustrations with an emphasis on visual storytelling and development of personal style. Students will learn how to incorporate raster images, apply filters, explore the color guide, and utilize the perspective tool for developing stylistic effects. Prerequisite: GDDM 54 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 60 CREATIVE PORTFOLIO DEVELOPMENT & SELF PROMOTION 3 UNITS

Student will develop strategies to promote oneself and one's work. Create and refine a design portfolio and resume to impress potential clients and employers. Practice effective techniques for oral and visual presentations, interviews, and client discussions. Strongly

Recommended: GDDM 53 with a minimum grade of C, GDDM 54 with a minimum grade of C, GDDM 55 with a minimum grade of C, GDDM 64 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 62 WEB DESIGN II 3 UNITS

Develop technical and design skill needed to for the creation of web sites including user interface considerations for desktop and mobile devices using Cascading Style Sheets. Emphasis placed on functional, logical, attractive, accessible and appropriate website design for the client and end-user. Topics include techniques and tools required to format text, create animations and other content for the web. Prerequisite: GDDM 55 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 63 WEBSITE/MULTIMEDIA PRODUCTION 3 UNITS

Culminating class in study of technical and creative design techniques necessary to build industry-standard website and interactive multimedia products. Students will learn how to create and deploy interactive and motion design content to mobile, tablet, and desktop screens. Prerequisite: GDDM 55 with a minimum grade of C and/or GDDM 62 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 64 INDESIGN I 3 UNITS

This introductory level course in page layout and design uses Adobe InDesign software. Students assemble a variety of pieces such as booklets, brochures, magazines, newspapers, newsletters, and other communication materials. Emphasis is on learning techniques used by graphics professionals to create full-color pieces integrating text, photos, and illustrations. Strongly Recommended: GDDM 50 with a minimum grade of C, GDDM 52 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 65 ELECT PREPRESS/ PRINT PROD 3 UNITS

Culminating class in study of technical and creative design techniques necessary to produce accurate prepress files used to produce finished printed materials. Upon completion, students will show mastery of the creative process and technical skills necessary to produce individual- and team-based single- and multi-page print work to client and industry specifications. This course provides students with professional prepress and print work experience within Las Positas College and the surrounding community including participation in client briefing, Q & A, presentation, feedback and critique sessions. Strongly Recommended: GDDM 64 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 67 INDESIGN II 3 UNITS

Students will learn to use InDesign to create press-ready layouts using

industry standard techniques and best practices. Students create materials suitable for print-on-demand and traditional publishing, e-books, and digital publishing. Students will also learn to create interactive PDFs and fixed-layout EPUBs (PDFs, fixed-layout EPUBs) with slideshows, buttons, and videos. Prerequisite: GDDM 64 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 68 CREATIVE PORTFOLIO PREPARATION 3 UNITS

Students in this class will revise and develop their existing body of work to be portfolio quality. Students will also create new works to fill gaps in their portfolio and to highlight an area of focus. The course will focus on skill-building, sharpening one's design sense, creative self-expression, and in-depth exploration of software and techniques. Prerequisite: GDDM 53 with a minimum grade of C or GDDM 54 with a minimum grade of C or GDDM 64 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

GDDM 70 PHOTOSHOP AND LIGHTROOM FOR PHOTOGRAPHERS 3 UNITS

Learn to use Lightroom and Photoshop in a workflow designed for digital photographers. Learn Best practices for digital workflows, database management, non-destructive parametric editing, color management, and output to print, web, slideshows, and photo book. Students who have completed, or are enrolled in, PHTO 70 may not receive credit. Prerequisite: PHTO 56 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. AA/AS GE: III. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

HEALTH

The Health program offers courses in personal health and public health. Personal health courses, such as HEA 1 and HEA 3, enhance a student's ability to improve his/her personal health. Public health courses, such as HEA 7 and HEA 11, empower students to improve the health of communities.

Programs of Study

Degrees:

- AS-T - Public Health Science

AS-T – Public Health Science

About the Degree

The Associate of Science in Public Health Science for Transfer Degree is designed for prospective California State University (CSU) who are preparing for careers in the field of Public Health. Completion of the AS-T degree in Public Health Science, opens doors to entry-level careers in a wide variety of health-related agencies, medical centers, long-term care facilities, private and public health organizations,

and local, state, and federal health departments. After completion of the AS-T in Public Health Science, transfer, and further education, additional career paths are possible including health educator, health care manager, nurse, physical therapist, community college health instructor, physician, public health advisor, health informatics, and medical scientist. Whether students choose selective employment or transfer and further education, they have the opportunity to become the new generation of health professionals prepared to face the emerging challenges to human health.

Completion of the AS-T degree in Public Health Science provides a streamlined path for transfer to a California State University (CSU) campus with a public health science related major such as: Health Science, Health Science with Health Education option, Health Science with Public Health option, Health Science with Community Health Option, Health Science with Health Promotion & Disease Prevention, Health Education, Public Health, Public Health Promotion, Kinesiology with Health Education, Kinesiology with Health Science option, Kinesiology with Health and Wellness Promotion, Kinesiology with Health Promotion and Disease Prevention, Collaborative Health, and Human Services with Community Health option. Students should consult with a counselor to determine whether or not this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution.

Completion Requirements:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education – Breadth Requirements.
 - A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AS-T in Public Health Science, students are able to describe factors that contribute to health disparities and leading causes of morbidity and mortality, including factors related to public policy, socioeconomics, and the environment.
- Upon completion of the AS-T in Public Health Science, students are able to develop strategies for initiating and/or maintaining activities that promote health through individual behavior, civic/community engagement, and/or environmental stewardship.
- Upon completion of the AS-T in Public Health Science, students are able to critically evaluate popular and scientific literature and other media for its significance and impact on individual and public health.

Required Core: (31-32 Units)

BIO 7A (Human Anatomy) 5

BIO 7B (Human Physiology)	5
BIO 30 (Introduction to College Biology).....	4
CHEM 31 (Introduction to College Chemistry) or CHEM 1A (General College Chemistry I).....	4-5
HEA 1 (Introduction to Personal Health).....	3
HEA 7 (Introduction to Public Health)	3
MATH 40 (Statistics and Probability)	4
PSYC 1 (General Psychology).....	3

List A: Select One (3 Units)

ECON 1 (Principles of Microeconomics).....	3
ECON 2 (Principles of Macroeconomics)	3
HEA 3 (Women's Health)	3
HEA 11 (Health and Social Justice)	3
NTRN 1 (Introduction to Nutrition Science).....	3
PSYC 10 (Psychology of Human Sexuality)	3
PSYC 12 (Life-Span Psychology).....	3
SOC 1 (Principles of Sociology)	3

Total Units for the Major 34-35

Additional General Education and Elective Units 25-26

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Health Courses (HEA)

HEA 1 INTRODUCTION TO PERSONAL HEALTH 3 UNITS

An exploration of major health issues and behaviors in the various dimensions of health (physical, emotional, intellectual/mental, social, spiritual, and environmental). Emphasis is placed on individual responsibility for personal health and the promotion of informed, positive health behaviors. Topics include psychological health, mental health, stress management, nutrition, exercise, weight management, chronic and infectious diseases, healthy relationships, sexual health, drug use and misuse, aging, and the health care system. 54 hours lecture. AA GE: VB. Transfer: CSU, UC*; CSU GE: E; C-ID# PHS 100.

*HLTH 1 and 3 combined: maximum UC credit, one course.

Degree Applicable, Credit Grading Option: OP

HEA 3 WOMEN'S HEALTH 3 UNITS

Physiological, psychological, social, cultural, and political influences on women's health. Emphasis on diversity of women's health experiences and factors involved with both population level health outcomes and individual decision-making. Focus on empowerment for primary prevention. 54 hours lecture. AA/AS GE: IV, VB. Transfer: CSU, UC*; CSU GE: D4, D7, E; IGETC: 4D. *HLTH 1 and 3 combined: maximum UC credit, one course.

Degree Applicable, Credit Grading Option: OP

HEA 7 INTRODUCTION TO PUBLIC HEALTH 3 UNITS

An introduction to the discipline of Public Health including basic concepts and terminologies of public health, as well as the history and accomplishments of public health professionals and agencies. An overview of the functions of various public health professions and institutions, and an in-depth examination of the core public health disciplines will be covered. Topics include epidemiology of infectious and chronic diseases; prevention and control of diseases in the community; analysis of the social determinants of health; health disparities among various populations; strategies for disease reduction; community organizing and health promotion programming; environmental health and safety; global health; and healthcare policy. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: IV, VB. Transfer: CSU, UC; CSU GE: D, IGETC: 4; C-ID# PHS 101.

Degree Applicable, Credit Grading Option: OP

HEA 11 HEALTH AND SOCIAL JUSTICE 3 UNITS

This course provides an introduction to the health inequities specifically within the United States that stem from the unequal distribution of power, wealth, education, and services. Students will explore the social determinants of health including socioeconomic status, poverty, racism, violence, and living conditions. Agency, advocacy, community organizing, and policy development will be included. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: IV, VB. Transfer: CSU, UC; CSU GE: D, IGETC: 4; C-ID# PHS 102.

Degree Applicable, Credit Grading Option: OP

HEA 29 INDEPENDENT STUDY, HEALTH 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

HISTORY

The History major is designed to help students comprehend the forces that have shaped the United States, as well as other nations around the world. The program fulfills the campus mission to foster growth in its students and in the community. The program offers a wide variety of courses, and all of the units are transferable. Students of history are encouraged to develop critical thinking skills and to learn to write clearly. Both skills will enable students to be successful in their chosen career fields. The discipline of history helps to nurture an informed public and is, therefore, of vital importance to a democratic society. While units in this program are transferable to many institutions, students should consult a counselor for transfer information.

Programs of Study

Degrees:

- AA-T – History

AA-T – History

About the Degree

The discipline of history helps to nurture an informed public and is, therefore, of vital importance to a democratic society. The program for the Associates in Arts in History for Transfer exposes students to the great historical arguments on these issues, and prompts students to think for themselves on these important topics. Students progressing toward the AA-T in History will learn the tools of critical thinking. They will be expected to apply their skills to a variety of historical narratives. The transfer degree is especially intended to assist students in transferring into the California State University System. Students completing the degree receive a guarantee of admission with junior status into the California State University System and will have completed the common core of lower division courses required for a CSU baccalaureate degree in the field of History or a similar major.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C" (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AA-T in History, students are able to analyze and assess various types of historical sources.
- Upon completion of the AA-T in History, students are able to compose an argument using historical evidence.
- Upon completion of the AA-T in History, students are able to explain major historical developments in United States and World History.

Required Core: (6 Units)

HIST 7 (US History Through Reconstruction).....	3
HIST 8 (US History Post-Reconstruction).....	3

List A: Select Two (6 Units)

HIST 1 (Western Civilization to 1600) or HIST 3 (World History to 1500)	3
HIST 2 (Western Civilization Since 1600) or HIST 4 (World History since 1500).....	3

List B: Select One Course from

Each Area (6 Units)

Area 1

HIST 25 (American Indian History).....	3
HIST 32 (U.S. Women's History)	3

Area 2

HIST 14 (History and American Cultures of California)	3
HIST 28 (History of the American West)	3

Total Units for the Major 18

Additional General Education and Elective Units..... 42

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

History Courses (HIST)

HIST 1 WESTERN CIVILIZATION TO 1600 3 UNITS

This course traces the origins and development of Western civilization from its beginnings in the Ancient Near East, the Fertile Crescent, and the Middle East, through its expansion into Greece, Rome, and the rest of Europe. Topics include the rise and expansion of Christianity and Islam, the Middle Ages, the Renaissance, and the Protestant Reformation. 54 hours lecture. AA/AS GE: III, IV. Transfer: CSU, UC; CSU GE: C2, D6; IGETC: 3B, 4F; C-ID# HIST 170.

Degree Applicable, Credit Grading Option: OP

HIST 2 WESTERN CIVILIZATION SINCE 1600 3 UNITS

This course traces the history of Western civilization from the 1600s to the present. Topics include the Scientific Revolution, the Enlightenment, and the Industrial Revolution; the American and French Revolutions; World Wars I and II; the Cold War and its end; and the challenges of the modern era. 54 hours lecture. AA/AS GE: III, IV. Transfer: CSU, UC; CSU GE: C2, D6; IGETC: 3B, 4F; C-ID# HIST 180.

Degree Applicable, Credit Grading Option: OP

HIST 3 WORLD HISTORY TO 1500 3 UNITS

Survey of the experience of all peoples with vastly different cultures inhabiting a single globe. Emphasizes the emergence of human communities, formation of complex societies, development of major belief systems and interaction with the environment based on experience, knowledge, and technology to c. 1500. 54 hours lecture. AA/AS GE: III, IV. Transfer: CSU, UC; CSU GE: C2, D; IGETC: 4, 3B; C-ID# HIST 150.

Degree Applicable, Credit Grading Option: OP

HIST 4 WORLD HISTORY SINCE 1500 3 UNITS

This course covers the experience of all the world's people from the early modern era to the present. Emphasis is upon the interaction of people with the environment based on the development of technology and conflict between traditional systems and new(er) orders. Broader forces that affect civilizations such as borderlands, exploration and travel, gender and class will be studied. 54 hours lecture. AA/AS GE: III, IV. Transfer: CSU, UC; CSU GE: C2, D; IGETC: 3B, 4; C-ID# HIST 160.

Degree Applicable, Credit Grading Option: OP

HIST 7 US HISTORY THROUGH RECONSTRUCTION 3 UNITS

A survey of United States history from its pre-colonial, indigenous origins through the end of Reconstruction. Emphasis on (1) distinctively American patterns of political, economic, social, intellectual, and geographic developments, (2) the interaction amongst and the experiences of diverse racial, ethnic and socioeconomic groups in American History, and (3) the evolution of American institutions and ideals including the U.S. Constitution, the operations of the U.S. government, and the rights and obligations of U.S. citizens under the Constitution. 54 hours lecture. AA/AS GE: III, IV, VI. Transfer: CSU, UC; CSU GE: C2, D6; CSU AI: US1, US2; IGETC: 3B, 4F; C-ID#HIST 130.

Degree Applicable, Credit Grading Option: OP

HIST 8 US HISTORY POST-RECONSTRUCTION 3 UNITS

History of the United States from the post-Civil War period to the present. Emphasis on (1) distinctively American patterns of political, economic, social, intellectual and geographic developments, (2) the framework of California state and local government, and the relationship between state/local government and the federal government. 54 hours lecture. AA/AS GE: III, IV, VI. Transfer: CSU, UC; CSU GE: C2, D6; CSU AI: US1, US3; IGETC: 3B, 4F; C-ID# HIST 140.

Degree Applicable, Credit Grading Option: GR

HIST 14 HISTORY AND AMERICAN CULTURES OF CALIFORNIA 3 UNITS

The history of California from its pre-contact societies to the present, with particular attention to the following periods: Spanish exploration and colonization; the Mexican Revolution; American conquest and the Gold Rush; the Progressive Era; the Great Depression and World War II; and the social movements of the 1960's. In addition to exploring the major political, economic, technological, social, cultural, and environmental developments that have shaped California's history, this course will focus on the distinct and overlapping experiences of the state's Native American, Latino American, African American, Asian American, and European American populations. 54 hours lecture. AA/AS GE: III, IV, VI, AC. Transfer: CSU, UC; CSU GE: C2, D3, D6; CSU AI: US3; IGETC: 3B, 4F.

Degree Applicable, Credit Grading Option: GR

HIST 25 AMERICAN INDIAN HISTORY 3 UNITS

Historical survey of American Indians in the United States from earliest times to the present day. Emphasis on Indian societies and cultures, Indian relations with predominant cultures, Indian movement for self-preservation, and historical background necessary to understand contemporary problems of the Indians. Emphasis on the Indians of California and the West. 54 hours lecture. AA/AS GE: III, IV, VI. Transfer: CSU, UC; CSU GE: C2, D3, D6; CSU AI: US1; IGETC: 3B, 4F.

Degree Applicable, Credit Grading Option: GR

HIST 28 HISTORY OF AMERICAN WEST 3 UNITS

A history of the trans-Mississippi West of the United States. Emphasis will be placed on Native American history and cultures, European and Anglo-American frontiers, expansion of the United States in the 19th century, and the interaction of Native American, European American, Asian American, African American and Hispanic American peoples, and the significance of the West in American history. 54 hours lecture. AA/AS GE: III, IV, AC. Transfer: CSU, UC; CSU GE: D3, D6; IGETC: 4F.

Degree Applicable, Credit Grading Option: GR

HIST 32 U.S. WOMEN'S HISTORY 3 UNITS

A survey of United States women's history from its indigenous origins through the present. This course emphasizes the interaction and experiences of diverse racial/ethnic groups that include at least three of the following groups: African-Americans, Chicana/Latina Americans, Asian Americans, European Americans, and Native Americans. Special areas of focus include women's role in the political, economic, social, and geographic development of the United States. 54 hours lecture. AA/AS GE: III, IV, VI, AC. Transfer: CSU, UC; CSU GE: C2, D4, D6; CSU AI: US1; IGETC: 3B, 4D, 4F.

Degree Applicable, Credit Grading Option: GR

HORTICULTURE

The horticulture curriculum is designed to meet the demand for trained personnel in a broad range of horticultural fields. The Horticulture program offers an Associate of Science degree and Certificates of Achievement in several fields: ornamental horticulture, landscape maintenance and construction, and landscape design. Successful completion of any of these Certificates of Achievement in Horticulture provides students with skills proficiency for entry-level jobs. The Associate of Science (AS) Degree is recommended for students who wish to transfer to 4-year institutions. Students with the AS degree will also have demonstrated a broader educational basis and writing ability that can give them an advantage for promotional opportunities in the future.

Programs of Study

Degrees:

- AS – Horticulture

Certificates of Achievement:

- Landscape Design
- Landscape Maintenance and Construction
- Nursery, Greenhouse, and Grower Operations
- Ornamental Horticulture

Career Opportunities

Students might work in residential and commercial landscape installation and maintenance; urban tree service; forestry; park, grounds, and golf course maintenance; landscape installation and maintenance & nursery management and operations; floristry; plant pest control and horticulture consulting; and landscape design. The Las Positas College website links you to resources to learn more about opportunities in the field of horticulture: <http://www.laspositascollege.edu/HORT/>

AS – Horticulture

About the Degree

The Associate of Science in Horticulture is designed to prepare students to have a broader education basis and writing ability that can give them an advantage for promotional opportunities in the field of Horticulture.

Career Opportunities

Career opportunities for students who complete this program include technical, supervisory and management positions in the fields of: retail, wholesale, and grower nursery management; landscape and irrigation maintenance, installation, and design; and landscape management of gardens, parks, golf courses, and sports fields.

Program Outcomes

- Upon completion of the AS in Horticulture, students are able to demonstrate an understanding of the principles of ornamental horticulture, landscape maintenance and construction, nursery, greenhouse, and grower operations, and landscape design sufficient to seek employment in a technical or supervisory horticultural position.
- Upon completion of the AS in Horticulture, students are able to accurately identify a set of plant material; use that plant material in a landscape design; and prepare a maintenance schedule for the chosen plant materials.
- Upon completion of the AS in Horticulture, students are able to select plant materials for a given landscape based on water requirements, soil type, pest and disease resistance, growth habits, and design requirements.

Required Core: (25 Units)

HORT 50 (Introduction to Horticulture)	3
HORT 51 (Fall Plant Material Identification)	3
HORT 52 (Spring Plant Material Identification)	3
HORT 53 (Landscape and Vineyard Pest and Disease Management)	3
HORT 54 (Landscape and Vineyard Soils, Fertilizers, and Irrigation)	3
HORT 56 (Arboriculture/Urban Forestry)	3
HORT 57 (Landscape and Turfgrass Mgmt)	2
HORT 59 (Landscape Design)	2
HORT 60 (Landscape Irrigation Systems)	3

List A: Select Three (6-9 Units)

HORT 55 (Greenhouse, Nursery, and Garden Center Management)	3
HORT 58 (Landscape Construction)	3
HORT 62 (California Native and Dry Landscapes)	2
HORT 63 (Sustainable Landscape)	2
HORT 67 (Interior Landscapes)	2
HORT 71 (Fundamentals of Hydroponics and Aquaponics)	3
HORT 73 (Computer Aided Landscape Design)	3

Program-Based GE[^]: (3 Units)

BIO 40 (Humans and the Environment)	3
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Total Units for the Major 31-34

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a

counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Landscape Design

About the Certificate

The Certificate of Achievement in Landscape Design is designed to prepare students for top level work in landscape and irrigation design, installation and management.

Career Opportunities

Career opportunities for students who complete this program include: irrigation designer or consultant, landscape designer or consultant, and management of large scale landscapes.

Program Outcomes

- Upon completion of the Certificate of Achievement in Landscape Design, students are able to prepare landscape plans and detailed drawings.
- Upon completion of the Certificate of Achievement in Landscape Design, students are able to demonstrate an understanding of the concepts of sustainable landscaping, typical landscape construction techniques and irrigation systems.

Required Core: (35 Units)

HORT 50 (Introduction to Horticulture)	3
HORT 51 (Fall Plant Material Identification)	3
HORT 52 (Spring Plant Material Identification)	3
HORT 53 (Landscape and Vineyard Pest and Disease Management)	3
HORT 54 (Landscape and Vineyard Soils, Fertilizers, and Irrigation)	3
HORT 56 (Arboriculture/Urban Forestry)	3
HORT 57 (Landscape and Turfgrass Mgmt)	2
HORT 58 (Landscape Construction)	3
HORT 59 (Landscape Design)	2
HORT 60 (Landscape Irrigation Systems)	3
HORT 62 (California Native and Dry Landscapes)	2
HORT 63 (Sustainable Landscape)	2
HORT 73 (Computer Aided Landscape Design)	3
Total Units	35

Certificate of Achievement Landscape Maintenance and Construction

About the Certificate

The Certificate of Achievement in Landscape Maintenance and Construction is designed to prepare students for technical and supervisory level work in management, maintenance and

construction of landscapes and turf.

Career Opportunities

Career opportunities for students who complete this program include technical and supervisory positions in the fields of: landscape maintenance, landscape construction, park maintenance, golf course and sports field management.

Program Outcomes

- Upon completion of the Certificate of Achievement in Landscape Maintenance and Construction, students are able to demonstrate an understanding of the maintenance requirements for trees, vines, shrubs, perennials, annuals, and turf.
- Upon completion of the Certificate of Achievement in Landscape Maintenance and Construction, students are able to read a landscape plan and install landscape features, such as plantings, pavement, structures, and irrigation systems, based on those plans.

Required Core: (28 Units)

HORT 50 (Introduction to Horticulture)	3
HORT 51 (Fall Plant Material Identification)	3
HORT 52 (Spring Plant Material Identification)	3
HORT 53 (Landscape and Vineyard Pest and Disease Management)	3
HORT 54 (Landscape and Vineyard Soils, Fertilizers, and Irrigation)	3
HORT 56 (Arboriculture/Urban Forestry)	3
HORT 57 (Landscape and Turfgrass Mgmt)	2
HORT 58 (Landscape Construction)	3
HORT 60 (Landscape Irrigation Systems)	3
HORT 62 (California Native and Dry Landscapes)	2
Total Units	28

Certificate of Achievement Nursery, Greenhouse and Grower Operations

About the Certificate

The Certificate of Achievement in Nursery, Greenhouse, and Grower Operations is designed to prepare students for work in retail or wholesale nursery operations, greenhouse operations, interior plantscape installation and maintenance, and ornamental and urban agriculture growing operations.

Career Opportunities

Numerous entry level career opportunities in the field of horticulture include: retail garden sales associate, wholesale and grower nursery worker, landscape maintenance worker, park maintenance worker, and golf course greenskeeper.

Program Outcomes

- Upon completion of the Certificate of Achievement in Nursery, Greenhouse, and Grower Operations, students are able to demonstrate an understanding of propagation, care, and marketing involved in the production and sale of nursery plants.

- Upon completion of the Certificate of Achievement in Nursery, Greenhouse, and Grower Operations, students are able to demonstrate an understanding of the principles of growing plants in urban environments, such as greenhouse, interior plantscapes, hydroponic/aquaponic, and other urban agricultural and horticultural environments.

Required Core: (29 Units)

HORT 50 (Introduction to Horticulture).....	3
HORT 51 (Fall Plant Material Identification).....	3
HORT 52 (Spring Plant Material Identification)	3
HORT 53 (Landscape and Vineyard Pest and Disease Management).....	3
HORT 54 (Landscape and Vineyard Soils, Fertilizers, and Irrigation)	3
HORT 55 (Greenhouse, Nursery, and Garden Center Management)3	
HORT 60 (Landscape Irrigation Systems)	3
HORT 62 (California Native and Dry Landscapes).....	2
HORT 67 (Interior Plantscapes).....	2
HORT 71 (Fundamentals of Hydroponics and Aquaponics)	3

Total Units 29

Certificate of Achievement Ornamental Horticulture

About the Certificate

The Certificate of Achievement in Ornamental Horticulture is designed to prepare students for work in entry level horticultural fields. The course work is designed to prepare students for jobs in retail garden centers and landscape maintenance.

Career Opportunities

Numerous entry level career opportunities in the field of horticulture include: retail garden sales associate, wholesale and grower nursery worker, landscape maintenance worker, park maintenance worker, and golf course greenskeeper.

Program Outcomes

- Upon completion of the Certificate of Achievement in Ornamental Horticulture, students are able to demonstrate a basic understanding of the field of horticulture and possible career opportunities.
- Upon completion of the Certificate of Achievement in Ornamental Horticulture, students are able to identify plants and be able to select their proper care and maintenance.
- Upon completion of the Certificate of Achievement in Ornamental Horticulture, students are able to recognize typical horticultural pests and diseases, and know how to research their treatment.

Required Core: (12 Units)

HORT 50 (Introduction to Horticulture).....	3
HORT 51 (Fall Plant Material Identification).....	3
HORT 52 (Spring Plant Material Identification)	3
HORT 53 (Landscape, Vineyard Pest and Disease Management).....	3

Total Units 12

Horticulture Courses (HORT)

HORT 50 INTRODUCTION TO HORTICULTURE 3 UNITS

Botanical nomenclature, anatomy and physiology, plant growth and development are presented. Soils, media, fertilizers, and watering methods are discussed. Preliminary Landscape design, installation and maintenance is included. Current practices of plant propagation, plant disorders and pest management, and 21st Century horticulture trends will be explored. (8 hours of lab to be scheduled on Saturdays which may include one or more field trips). 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

HORT 51 FALL PLANT MATERIAL IDENTIFICATION 3 UNITS

Identification of landscape and garden plants will be categorized. Growth habit, climatic adaptation, ornamental value, maintenance and care of trees, shrubs, vines will be studied, with the focus on deciduous trees and fall flowering plants. (8 hours of lab to be scheduled on Saturdays which may include one or more field trips). 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

HORT 52 SPRING PLANT MATERIAL IDENTIFICATION 3 UNITS

Identification of landscape and garden plants will be categorized. Growth habit, climatic adaptation, ornamental value, maintenance and care of trees, shrubs, vines will be studied, with the focus on evergreen and spring flowering plants. (8 hours of lab to be scheduled on Saturdays, which may include one or more field trips). 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

HORT 53 LANDSCAPE AND VINEYARD PEST AND DISEASE MANAGEMENT 3 UNITS

This course covers concepts of plant pathology, entomology, and weed science which are studied in order to identify symptoms, diagnose problems, and determine methods of controlling plant diseases, insects, and weed pests. Also included is the study of the identification and biology of common vineyard, landscape and other horticultural crop pests and diseases. Materials and instruction is provided for techniques and strategies for sampling, monitoring and effective control measures, pest management strategies for insects, weeds and diseases, including bio-control, sustainable agriculture practices and integrated pest management. In addition to pesticide use, safety and compliance, there is a focus on preparation for the California State Qualified Applicators license. Students that take VWT 35 may not receive credit for HORT 53. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

HORT 54 LANDSCAPE AND VINEYARD SOILS, FERTILIZERS, AND IRRIGATION 3 UNITS

This course is a study of the physical, chemical and biological properties of soil. Areas of study will include: soil classification, derivation, uses, function and management including erosion, moisture retention, structure, cultivation, organic matter and microbiology. There is a focus on vineyard and landscape planting media, soil substitutes, hydroponics, and amendments to improve and promote plant growth which includes plant and vine nutrition, essential nutrients required for plant growth and healthy development. There will be instruction covering materials used for fertilizers which includes material origins, use, and application; and irrigation systems which will cover materials required for basic irrigation systems used in vineyard and landscape settings. Students that take VWT 12 may not receive credit for HORT 54. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

**HORT 55 GREENHOUSE, NURSERY, AND 3 UNITS
GARDEN CENTER MANAGEMENT**

Explores many horticulture specializations including management and operations of retail and wholesale nurseries, greenhouse growers, specialized growers of trees, shrubs, flowers, hydroponics growers, vegetable growers. Emphasis on plant propagation, propagation structures, greenhouses, nursery and garden center management and operations. Employment opportunities are in the wholesale and retail horticulture industry. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**HORT 56 ARBORICULTURE/URBAN 3 UNITS
FORESTRY**

Care, maintenance, planting, and pruning of trees, shrubs, and vines are discussed. Specific pruning techniques for ornamental trees, fruit trees, shrubs, roses, and other woody plants are demonstrated. Principles of urban forestry, tree preservation, health, growth characteristics, plant selection, planting, irrigation, fertilization, and damage repair are studied. (8 hours of lab to be scheduled on Saturdays, which may include one or more field trips). 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**HORT 57 LANDSCAPE AND 2 UNITS
TURFGRASS MANAGEMENT**

Principles and practices of landscape and turfgrass management as practiced by horticultural professionals, landscape contractors, and grounds keepers will be covered, including preparation, installation, maintenance, renovation, irrigation, fertilization, pruning, and pest control of landscape developments for residential, commercial, public grounds, golf courses, and gardens. 27 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

HORT 58 LANDSCAPE CONSTRUCTION 3 UNITS

Design, engineering, construction techniques, and installation methods for landscape site development. Cost estimating, bidding, construction materials, methods, equipment, tools, and safety for landscape plan implementation. Contracts, specifications, and legal aspects regarding landscape installation and site development. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

HORT 59 LANDSCAPE DESIGN 2 UNITS

Landscape site planning and landscape architectural design for residential properties, home gardens, and small-scale use areas. Procedures and methods required in the planning and design process; site inventory, site analysis, user group analysis, preparation of site study diagrams, preliminary designs, and master site plans. Theory and principles of design, site layout, landscape elements, and material selection. Sketching, drafting, delineation, reproduction, and coloring techniques for landscape architectural plans. Selection and use of drawing tools, materials, and equipment. 27 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**HORT 60 LANDSCAPE IRRIGATION 3 UNITS
SYSTEMS**

Planning, design, engineering, construction, and maintenance of sprinkler and drip irrigation systems for landscape, garden, and turfgrass use. Principles of hydraulics, layout, and equipment application. Irrigation system equipment, components, methods of installation and repair. Principles and techniques of water conservation and plant-water-soil relations. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**HORT 62 CALIFORNIA NATIVE AND 2 UNITS
DRY LANDSCAPES**

This course examines the native plant communities of California and identifies native plants suitable for the design and installation of dry landscapes in Northern California. The focus of this course is the planning, design, installation, care, and maintenance of drought tolerant landscapes, with the goal of creating more sustainable landscapes. 27 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

HORT 63 SUSTAINABLE LANDSCAPE 2 UNITS

This course examines the impact of constructed landscapes on the postindustrial society. Natural ecosystems are studied in order to learn concepts essential to create and maintain sustainable, environmentally sound landscapes. The focus of this course is on planning, designing, installing, and maintaining of landscapes, through the use of ecologically sound construction techniques, materials, and systems. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

HORT 67 INTERIOR PLANTSCAPES 2 UNITS

Identification, use, propagation, growth, environmental adaptation, ornamental value, and care of container, indoor, and house plants. 27 hours lecture. 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**HORT 71 FUNDAMENTALS OF 2 UNITS
HYDROPONICS AND AQUAPONICS**

The ecological design and operation of urban agriculture that covers the fundamental principles of raising fish and vegetable crops in soil-less media. 27 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

HORT 73 COMPUTER AIDED DESIGN 3 UNITS

Introduction to basic techniques in computer aided design for interior and exterior design, with emphasis on user terminology and hands-on learning. How to set up drawings, dimensioning systems appropriate to architecture. Floor plans, landscapes, details, drawings and other techniques using the computer. Students who have completed or are enrolled in INTD 40 may not receive credit. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

HUMANITIES

Humanities is an interdisciplinary academic field that encourages students to critically examine a diverse, interconnected, and changing world and their own lives within it by exploring human creativity past and present. Courses in Humanities offer students a creative, historical, and philosophical immersion in a number of different but overlapping fields of study: painting, sculpture, architecture, music, theater, literature, film, dance, etc. In addition to practicing critical skills for analyzing various forms of art, Humanities students are encouraged to develop an appreciation for the value of arts and ideas in their own lives and in society as a whole.

The Humanities Program at Las Positas College is in the Arts and Humanities Division and forms part of the Humanities Cluster along with Philosophy and Religious Studies. Humanities courses prepare those interested in majoring in Liberal Arts, Interdisciplinary Studies, Cultural Studies, English, Art History, Film, Classical Studies, Philosophy, or Humanities for successful transfer to four-year institutions.

Programs of Study

Degrees:

- AA – Humanities

Certificates of Achievement:

- Humanities

AA – Humanities

About the Degree

The Humanities AA degree is a program designed to offer students a broad introduction to the history and analysis of art forms, styles, and movements, as well as introducing them to important themes and aspects of human creativity seen in material culture, belief systems, and major ideas throughout time. Humanities courses prepare those interested majoring in fields, such as Liberal Arts, Interdisciplinary Studies, Cultural Studies, English, Art History, Film, Classical Studies, Philosophy, or Humanities

Program Outcomes

- Upon completion of the AA in Humanities, students are able to formally evaluate works of art using the elements and principles of art.
- Upon completion of the AA in Humanities, students are able to discuss important themes expressed in material culture and belief systems as seen throughout global history.
- Upon completion of the AA in Humanities, students are able to interpret and analyze aspects of culture and art by applying theoretical methods used in the humanities.
- Upon completion of the AA in Humanities, students are able to express and explain their appreciation for the arts through discussion and writing.

Required Core: (9 units)

HUMN 3 (Introduction to Humanities).....	3
HUMN 28 (World Mythology)	3
PHIL 1 (God, Nature, Human Nature)	3

List A: Select One (3 Units)

ENG 32 (U.S. Women's Literature).....	3
ENG 41 (Modern World Literature)	3
ENG 42 (Literature of the African Diaspora in America)	3
HIST 32 (U.S. Women's History)	3
HUMN 6 (Nature and Culture)	3
HUMN 10 (American Arts and Ideas).....	3
PHIL 2 (Ethics)	3
RELS 1 (Religions of the World).....	3
WMST 2 (Global Perspective of Women)	3

List B: Select One (3-4 Units)

ARHS 7 (Modern Art History)	3
HUMN 4 (Global Cinemas)	4
MUS 3 (World Music).....	3
PHTO 67 (History of Photography).....	3
THEA 4 (Modern American Theater)	3
THEA 10 (Introduction to Dramatic Arts).....	3

List C: Select One (3 Units)

ARHS 2 (Art of the Ancient Americas)	3
ARHS 5 (Western Art History - Renaissance to Contemporary)	3
HIST 1 (Western Civilization to 1600).....	3
HIST 2 (Western Civilization Since 1600).....	3
HUMN 11 (Culture and the Arts I: Ancient World to the Renaissance)	3
HUMN 12 (Culture and the Arts II: The Modern World).....	3

Total Units for the Major 18-19

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be

double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Humanities

About the Certificate

The Humanities Certificate of Achievement is designed to offer students a broad introduction to the history and analysis of art forms, styles, and movements, as well as introducing them to important themes and aspects of human creativity seen in material culture, belief systems, and major ideas throughout time. Humanities courses prepare those interested majoring in fields, such as Liberal Arts, Interdisciplinary Studies, Cultural Studies, English, Art History, Film, Classical Studies, Philosophy, or Humanities.

Program Outcomes

- Upon completion of the Certificate of Achievement in Humanities, students are able to critically evaluate works of art using the elements and principles of art.
- Upon completion of the Certificate of Achievement in Humanities, students are able to discuss important themes expressed in material culture, belief systems, and major ideas seen throughout history.
- Upon completion of the Certificate of Achievement in Humanities, students are able to interpret and analyze aspects of culture and art by applying theoretical methods used in the humanities.
- Upon completion of the Certificate of Achievement in Humanities, students are able to express and explain their appreciation for the arts through discussion and writing.

Required Core: (9 Units)

HUMN 3 (Introduction to Humanities).....	3
HUMN 28 (World Mythology)	3
PHIL 1 (God, Nature, Human Nature)	3

List A: Select One (3 Units)

ENG 32 (U.S. Women's Literature).....	3
ENG 41 (Modern World Literature)	3
HIST 32 (U.S. Women's History)	3
HUMN 6 (Nature and Culture)	3
HUMN 10 (American Arts and Ideas).....	3
PHIL 2 (Ethics)	3
RELS 1 (Religions of the World).....	3
WMST 2 (Global Perspective of Women)	3

List B: Select One (3-4 Units)

ARHS 7 (Modern Art History)	3
HUMN 4 (Global Cinemas)	4
MUS 3 (World Music).....	3
PHOTO 67 (History of Photography).....	3
THEA 4 (Modern American Theater)	3

THEA 10 (Introduction to Dramatic Arts).....	3
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List C: Select One (3 Units)

ARHS 2 (Art of the Ancient Americas)	3
ARHS 5 (Western Art History - Renaissance to Contemporary)	3
HIST 1 (Western Civilization to 1600).....	3
HIST 2 (Western Civilization Since 1600).....	3
HUMN 11 (Culture and the Arts I: Ancient World to the Renaissance)	3
HUMN 12 (Culture and the Arts II: The Modern World).....	3

Total Units 18-19

Humanities Courses (HUMN)

HUMN 2 INTRODUCTION TO FILM STUDIES 3 UNITS

Introduction to film aesthetics, styles, and devices, as well as film theory and critical approaches to film analysis. Overview of film history, in addition to film production, technology, and distribution. Emphasis on diverse responses to the art form of cinema and its impact on contemporary culture. 54 hours lecture. AA/AS GE: III, . Transfer: CSU, UC; CSU GE: C1, C2; IGETC: 3A, 3B.

Degree Applicable, Credit Grading Option: OP

HUMN 3 INTRODUCTION TO HUMANITIES 3 UNITS

Introduction to the analysis and appreciation of theater, film, music, poetry, architecture, and the visual arts (e.g. painting and sculpture). 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: OP

HUMN 4 GLOBAL CINEMAS 4 UNITS

Global cinema traditions analyzed through historical, political, cultural, commercial, and artistic perspectives. Screenings and interpretation of representative films from a variety of national and cultural film traditions from around the world, including films from Latin American, U.S., Asian, European, African, and Middle Eastern contexts. 54 hours lecture, 54 hours laboratory. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1, C2; IGETC: 3A, 3B.

Degree Applicable, Credit Grading Option: GR

HUMN 6 NATURE AND CULTURE 3 UNITS

An examination of the aesthetic value of the natural environment leading to the development of an individual critical aesthetic of the natural world. Studies in visual art, including painting, photography, sculpture, land art, mixed media, film, literature, and music. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: OP

HUMN 10 AMERICAN ARTS AND IDEAS 3 UNITS

Humanities of the United States explored through major works of literature, painting, sculpture, architecture, film, music, philosophy, technology, religion, political and social institutions that reflect the

values and meanings of the American cultural experience. Particular attention paid to the experience and contributions of various culture groups (African Americans, Asian-Americans, European-Americans, American Indians, and Latino Americans). 54 hours lecture. AA/AS GE: III, AC. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: OP

HUMN 11 CULTURE AND THE ARTS I: 3 UNITS
ANCIENT WORLD TO THE
RENAISSANCE

A survey of the artistic and intellectual accomplishments of human cultures from the Ancient to Early Renaissance Eras. Emphasis is on the study of ancient to medieval painting, sculpture, architecture, music, literature, theater, religion, and philosophy from both Western and non-Western cultures. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1, C2; IGETC: 3A, 3B.

Degree Applicable, Credit Grading Option: OP

HUMN 12 CULTURE AND THE ARTS II: 3 UNITS
THE MODERN WORLD

A survey of the artistic and intellectual accomplishments of human cultures from High Renaissance to Contemporary Eras, i.e. the Modern World. Emphasis is on the study of modern painting, sculpture, architecture, music, literature, theater, religion, and philosophy from around the globe. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1, C2; IGETC: 3A, 3B.

Degree Applicable, Credit Grading Option: OP

HUMN 28 WORLD MYTHOLOGY 3 UNITS

Introduction to world mythology, including classical mythology, and the mythic themes recurring in literature, the visual arts, and music. Introduction to the major theories used to evaluate mythology. Exploration of myths about creation, destruction, gods, humans, heroes, tricksters, as well as their origins, variation, historical development, and full expression in ancient times and continued presence in the arts. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: OP

HUMN 29 INDEPENDENT STUDY, 0.5-2 UNITS
HUMANITIES

For course information, see "Independent Studies". 27-108 hours laboratory.

INDEPENDENT STUDY

0.5 – 2 UNITS

Independent Study courses are open to all students and employ many combinations of media and educational techniques to create individualized, self-pacing education. Check with the Counseling Center, Building 1600, concerning transferability of Independent Study courses to four-year institutions. Independent Study is contracted through an instructor for research, field experience, or skill development. Independent Study is offered under many subject areas contained in the Catalog using the number 29. Transfer: CSU; UC credit may be granted only after review of course outline by specific UC campus after transfer. Independent Study courses have a grading option of "OP" unless otherwise indicated.

Degree Applicable, Credit

INTERIOR DESIGN

The Interior Design program offers a creative approach to learning Interior Design with practical course content, work experience and overall design projects that promote graduates to the working world of being an Interior Designer. The Interior Design program offers classes for students who are changing careers, brushing up on their design skills or wanting to have fun with their own home. Our AS degree offers students the opportunity to attend college to receive their degree while working. Often these students are placed in jobs or continue on to a 4-year college with transferable classes. Interior Design offers a unique, small program feel but a strong learning based foundation at the same time. Students are highly involved with other classmates and work collaboratively throughout the program. Work experience or internships are encouraged.

Programs of Study

Degrees:

- AS – Interior Design

Certificates of Achievement:

- Interior Design

Career Opportunities

Students with either a Certificate or AS degree are qualified to work in entry level commercial and residential design. Students might work for private clients, real-estate firms and builders decorating model homes, or corporations designing offices and stores. They might also work in sales to the trade or to the public. Either degree also allows students to open their own Interior Design business. More information can be found at:
<http://www.laspositascollege.edu/INTD/index.php>

AS – Interior Design

About the Degree

The Associate of Science in Interior Design offers students a creative approach to learning Interior Design, and the opportunity to earn their degree while working in the Interior Design field. This solid Interior Design program contains practical course content, work experience, and overall design projects that promote graduates to the working world of being an Interior Designer. Work experience or internships are encouraged.

Career Opportunities

Graduates can expect to work as designers in: architecture offices, commercial design firms, selling furniture or other design products, their own design company, home builders design centers, etc.

Program Outcomes

- Upon completion of the AS in Interior Design, students are able to demonstrate the skills and knowledge learned through coursework to meet CSU transfer requirements.

Required Core: (30 Units)

INTD 5 (Principles of Interior Design)	3
INTD 10 (Introduction to Textiles)	3
INTD 15 (Drafting for Interior Design)	3
INTD 20 (History of Interiors/Furnishings)	3
INTD 25 (Materials and Resources)	3
INTD 30 (Fundamentals of Lighting)	3
INTD 35 (Residential Space Planning)	3
INTD 40 (Computer Aided Design)	3
INTD 45 (Basic Kitchen and Bathroom Design)	3
INTD 47 (Professional Practices)	3

Program-Based GE[^]: (3 Units)

CMST 1 (Fundamentals of Public Speaking)	3
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Total Units for the Major 30

[^] Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Interior Design

About the Certificate

The Certificate of Achievement in Interior Design offers classes for students who are changing careers, brushing up on their design skills or just wanting to have fun with their own home. The certificate offers a solid Interior Design program with practical course content, work experience and overall design projects that promote graduates to the working world of being an Interior Designer. Work experience or internships are encouraged.

Career Opportunities

Certificate holders are able to obtain jobs as Interior designers in: their own business, a New Home-builder company, an Interior design firm, and a retail position as well as an architectural office.

Program Outcomes

- Upon completion of the Certificate of Achievement in Interior Design, students are able to work in a professional design company with both business and design education.

Required Core: (24 Units)

INTD 5 (Principles of Interior Design)	3
INTD 10 (Introduction to Textiles)	3
INTD 15 (Drafting for Interior Design)	3
INTD 20 (History of Interiors/Furnishings)	3
INTD 25 (Materials and Resources)	3
INTD 30 (Fundamentals of Lighting)	3
INTD 40 (Computer Aided Design)	3
INTD 47 (Professional Practices)	3

List A: Select Two (6 Units)

BUSN 52 (Business Communications)	3
INTD 35 (Residential Space Planning)	3
INTD 45 (Basic Kitchen and Bathroom Design)	3
MKTG 61 (Professional Selling)	3
WRKX 94 (Occupational Work Experience/Internship)	3

Total Units 30

Interior Design Courses (INTD)

INTD 5 PRINCIPLES OF INTERIOR DESIGN 3 UNITS

Elements and principles of design as they apply to interior design. Emphasis on the use of color and texture in the selection of home furnishings. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

INTD 10 INTRODUCTION TO TEXTILES 3 UNITS

The textile industry and its effects on the apparel and home furnishings markets. Fiber identification, yarn and fabric

construction, and decoration. Emphasis on consumer information, fabric performance, care and labeling, and legal responsibilities of the industry. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

INTD 15 DRAFTING FOR INTERIOR DESIGN 3 UNITS

Provides a working knowledge of tools and techniques for interior architectural drafting. emphasis on lettering, dimensioning floor plans, elevation and sections. Also, covers procedures for developing finished presentational drawings and boards. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

INTD 20 HISTORY OF INTERIORS/ FURNISHINGS 3 UNITS

A survey of the history of interiors and furnishings from Egyptian period to the present. Emphasis on furniture styles and ornamentation. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

INTD 25 MATERIALS AND RESOURCES 3 UNITS

Survey of residential and commercial interior furnishings with attention to product knowledge of furniture, textiles, ceramics, glass, metals, plastics and composite materials. Skills needed to perform related activities. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

INTD 30 FUNDAMENTALS OF LIGHTING 3 UNITS

Residential and commercial lighting systems as they apply to what constitutes a well-lit interior space. Includes an investigation of current lighting types and lighting resources. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

INTD 35 RESIDENTIAL SPACE PLANNING 3 UNITS

Basic techniques in planning space for interiors. Private and group living spaces, support systems, functional planning of interior space, and color in space planning. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

INTD 40 COMPUTER AIDED DESIGN 3 UNITS

Introduction to basic techniques in computer aided design for interior and exterior design, with emphasis on user terminology and hands-on learning. How to set up drawings, dimensioning systems appropriate to architecture. Floor plans, landscapes, details, drawings and other techniques using the computer. Students who have completed or are enrolled in HORT 73 may not receive credit. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

INTD 45 BASIC KITCHEN AND BATHROOM DESIGN 3 UNITS

Survey of the field of kitchen and bathroom designs. Includes resources, materials, trends, costs and needs, both functional and aesthetic. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

INTD 47 PROFESSIONAL PRACTICES 3 UNITS

Interior design practices including business and marketing aspects, wholesale resource development, design presentation and career preparation, contractual obligations. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

JOURNALISM AND MEDIA STUDIES

The Journalism and Media Studies program provides students with a broad understanding of the principles, roles, techniques, and effects of media in society. Students use these principles to produce media for student media outlets, including the newspaper, the radio station, the journalistic magazine, the literary magazine, and related multimedia forums. Students who earn a degree or certificate in Mass Communications may enter the workforce or transfer to a four-year school. The program includes two degrees and two certificates, allowing students to select the career or transfer pathway best suited to their educational goals.

Programs of Study

Degrees:

- AA-T – Journalism
- AA – Journalism and Media Studies

Certificates of Achievement:

- Journalism

Career Opportunities

The Journalism and Media Studies degree program provides specific hands-on training that will prepare students for immediate job entry, especially involving broadcast technology. Journalism and Media Studies majors often successfully pursue careers in media, such as reporting, public relations, print production, copy editing, broadcasting, videography, and photography.

AA-T – Journalism

About the Degree

The Associate in Arts in Journalism for Transfer is based on the Transfer Model Curriculum for Journalism. Upon successful completion of the program requirements, students will have guaranteed admission to some California State University (CSU) campuses. The Associate in Arts in Journalism for Transfer provides students with a broad understanding of the principles, roles,

techniques, and effects of media in society as well as experience in the application of these principles to the student media. The broad-based focus of the program serves to hone and refine students' reading, writing, speaking, cultural literacy, and critical thinking skills, enabling them to succeed in an academic environment or in the workplace and providing specific hands-on skills.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Career Opportunities

The information on the Labor Market Index web site indicates that three areas, Editors, Reporters and Correspondents, and Writers and Authors, are especially well-served by a Mass Communications degree. In recent years, social media and online media have provided career opportunities for many Mass Communications graduates.

Program Outcomes

- Upon completion of the AA-T in Journalism, students are able to develop a broad college-level understanding of the principles, roles, techniques, and effects of media in society.
- Upon completion of the AA-T in Journalism, students are able to prepare for careers in media and related fields.

Required Core: (9 Units)

JAMS 1 (Introduction to Mass Communications)	3
JAMS 2 (Introduction to Media).....	3
JAMS 21A (Express College Newspaper A).....	3

List A: Select One (3 Units)

JAMS 3 (Introduction to Public Relations)	3
JAMS 12 (Introduction to Photojournalism) or PHTO 72 (Documentary Photography)	3
JAMS 21B (Express College Newspaper B)	3
JAMS 23 (Multimedia Reporting)	3

List B: Select Two (6-8 Units)

CMST 4 (Introduction to Communication Studies).....	3
CMST 46 (Principles of Microeconomics).....	3
ECON 1 (Principles of Microeconomics) or ECON 2 (Principles of Macroeconomics)	3
ENG 1A (Critical Reading and Composition)	3

ENG 7 (Argumentation Writing and Critical Thinking)	3
HIST 7 (US History Through Reconstruction).....	3
HIST 8 (US History Post-Reconstruction).....	3
MATH 40 (Statistics and Probability)	4
JAMS 23 (Introduction to Media).....	3
PHIL 6 (Introduction to Logic or PHIL 8 (Logic and Argumentation)	4
POLI 7 (Introduction to American Government)	4
POLI 20 (Comparative Government).....	3
SOC 3 (Introduction to Race and Ethnicity)	3

Total Units for the Major 18-20

Additional General Education and Elective Units 40-42

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AA – Journalism and Media Studies

About the Certificate

The Associate of Arts in Journalism and Media Studies is designed to provide students a broad understanding of the principles of journalism and media as well as experience in the application of these principles to the campus media, including the newspaper, the journalistic magazine, and the literary magazine, all of which include multimedia components. Classes can be applied to meet transfer requirements at four-year institutions and for entry into careers in media, such as reporting, public relations, print production, copyediting, broadcasting, videography, and photography.

Career Opportunities

Students who graduate with the Associate of Arts in Journalism and Media Studies can enter careers in media, such as reporting, public relations, print production, copyediting, broadcasting, videography, and photography. Some career paths may require additional experience or study.

Program Outcomes

- Upon completion of the AA in Journalism and Media Studies, students are able to demonstrate an understanding of different aspects of the role of media in society through research and writing.
- Upon completion of the AA in Journalism and Media Studies, students are able to participate in the creation of student media, following a timeline for production, editing and formatting content, and publishing and distributing.

Required Core: (12 Units)

JAMS 11 (Introduction to Reporting and Newswriting).....	3
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JAMS 12 (Introduction to Photojournalism) or
PHTO 72 (Introduction to Photojournalism)3
JAMS 21A (Express College Newspaper A)3
JAMS 23 (Multimedia Reporting)3

List A: Select One (3 Units)

JAMS 1 (Introduction to Mass Communications)3
JAMS 2 (Introduction to Media).....3

List B: Select Three (9 Units)

JAMS 3 (Introduction to Public Relations)3
JAMS 19A (Journal of Arts, Literature, and Academic Writing A) or
ENG 19A (Journal of Arts, Literature, and Academic
Writing A)3
JAMS 19B (Journal of Arts, Literature, and Academic Writing B) or
ENG 19B (Journal of Arts, Literature, and Academic
Writing B).....3
JAMS 21B (Express College Newspaper B)3
JAMS 21C (Express College Newspaper C)3
JAMS 21D (Express College Newspaper D)3
JAMS 24A (Naked Magazine: College Magazine A).....3
JAMS 24B (Naked Magazine: College Magazine B)3

Total Units for the Major 24

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

**Certificate of Achievement
Journalism**

About the Certificate

The Las Positas College Certificate of Achievement in Journalism provides specific hands-on training that will prepare students for immediate job entry, especially involving broadcast and technology. The certificate has a broad-based focus that services to hone and refine students’ reading, writing, speaking, cultural literacy, and critical thinking skills, enabling them to succeed in an academic environment or in the workplace.

Career Opportunities

The Certificate of Achievement in Journalism provides a solid foundation and preparation for entry-level careers in reporting, public relations, print production, copyediting, broadcasting, videography, photography, and media technology.

Program Outcomes

- Upon completion of the Certificate of Achievement in Journalism, students are able to demonstrate an understanding of different aspects of the role of media in society through research and writing.
- Upon completion of the Certificate of Achievement in Journalism, students are able to participate in the creation of student media, following a timeline for production, editing and formatting content, and publishing and distributing.
- Upon completion of the Certificate of Achievement in Journalism, students are able to recognize, acquire, produce, and distribute content for the weekly college newspaper, The Express, demonstrating increasing understanding of standards of journalism and design.

Required Core: (12 Units)

JAMS 11 (Introduction to Reporting and Newswriting).....3
JAMS 12 (Introduction to Photojournalism) or
PHTO 72 (Introduction to Photojournalism)3
JAMS 21A (Express College Newspaper A)3
JAMS 23 (Multimedia Reporting)3

List A: Select Three (9 Units)

GDDM 64 (InDesign I).....3
JAMS 3 (Introduction to Public Relations)3
JAMS 19A (Journal of Arts, Literature, and Academic Writing A) or
ENG 19A (Journal of Arts, Literature, and Academic
Writing A)3
JAMS 19B (Journal of Arts, Literature, and Academic Writing B) or
ENG 19B (Journal of Arts, Literature, and Academic
Writing B).....3
JAMS 24A (Naked Magazine: College Magazine A).....3
WRKX 95 (General Work Experience)3

List B: Select One (3 Units)

JAMS 1 (Introduction to Mass Communications)3
JAMS 2 (Introduction to Media).....3

Total Units 24

**Journalism and Media Studies Courses
(JAMS)**

JAMS 1	INTRODUCTION TO MASS COMMUNICATIONS	3 UNITS
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Survey of mass communication and the interrelationships of media with society, including history, structure, and trends in a digital age. Discussion of theories and effects, economics, technology, law and ethics, global media, media literacy, and social issues, including gender and cultural diversity. Strongly Recommended: Eligibility for ENG 1A/1AEX. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC*; CSU GE: D7; IGETC: 4G; C-ID# JOUR 100. *JAMS 1 and 2 combined: maximum UC credit, one course.

Degree Applicable, Credit Grading Option: OP

JAMS 2 INTRODUCTION TO MEDIA 3 UNITS

A survey of radio, television, film, and multimedia and their impact on culture and society; includes economics, technological development, programming, ratings, legal aspects, and social control of broadcasting in America, and cross-cultural, international comparisons. Strongly Recommended: Eligibility for ENG 1A/1AEX. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC*; CSU GE: D7; IGETC: 4G. **JAMS 1 and 2 combined, max UC credit, one course.*

Degree Applicable, Credit Grading Option: OP

JAMS 3 INTRODUCTION TO PUBLIC RELATIONS 3 UNITS

Introduction to the principles, history, development, and professional practice of modern public relations. Includes concepts of planning and executing effective communication strategies, including message design and distribution, for any organization. Strongly Recommended: Eligibility for ENG 1A/1AEX. 54 hours lecture. Transfer: CSU; C-ID# JOUR 150.

Degree Applicable, Credit Grading Option: OP

JAMS 11 INTRODUCTION TO REPORTING AND NEWSWRITING 3 UNITS

An introduction to gathering, synthesizing/organizing, and writing news in journalistic style across multiple platforms. Includes role of the journalist, analysis of exemplary journalistic models, and related legal and ethical issues. Students will report and write based on their original interviews and research to produce news content. Experiences may include covering speeches, meetings, and other events, writing under deadline and use of AP Style. Strongly Recommended: Eligibility for ENG 1A/1AEX. 54 hours lecture. AA/AS GE: IB. Transfer: CSU; C-ID# JOUR 110.

Degree Applicable, Credit Grading Option: OP

JAMS 12 INTRODUCTION TO PHOTOJOURNALISM 3 UNITS

This course deals with the photographer as a journalist, focusing on theory and practice in press and publications photography, with emphasis on using the camera as a reporting and communications tool. Covered are news and feature photography and photographic essays, including composition, impact, and creativity, for newspapers, magazines, the Internet, and other mass communications media. Understanding and applying photojournalistic and basic technical and visual skills in the making of successful reportage photographs. Consideration of the work of major 20th and 21st century photojournalists. Students who have completed, or are enrolled in, PHTO 72 may not receive credit. Strongly Recommended: PHTO 50 with a minimum grade of C and/or PHTO 56 with a minimum grade of C and/or GDDM 53 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU, UC*; C-ID# JOUR 160. **JAMS 12, JAMS 23, PHTO 72 combined: maximum UC credit, one course.*

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

JAMS 19A JOURNAL OF ARTS, LITERATURE, AND 3 UNITS

ACADEMIC WRITING A

Creation of a literary-style student magazine. Practical training in the managing, editing, formatting, and printing of a literary magazine. Enrollment constitutes the staff of the magazine. Cross listed with ENG 19A. Students who have completed, or are enrolled in, ENG 19A may not receive credit. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

JAMS 19B JOURNAL OF ARTS, LITERATURE, AND ACADEMIC WRITING B 3 UNITS

Creation of a literary-style student magazine. Practical intermediate-level training in the managing, editing, formatting, and printing of a literary supplement and/or magazine with a focus on the production process, including copy editing, design, layout, proofreading, working with the printer, and digital and print distribution. Enrollment constitutes the staff of the magazine. Students who have completed, or are enrolled in, ENG 19B may not receive credit. Prerequisite: JAMS 19A with a minimum grade of C or ENG 19A with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

JAMS 21A EXPRESS COLLEGE NEWSPAPER A 3 UNITS

An applied course in which students practice and refine beginning journalism skills, including recognizing, acquiring, producing, and distributing content for the print and online editions of the student newspaper, the Express. The focus of study is on basic news, feature, and opinion stories. Students are introduced to concepts related to photojournalism, business management, graphic arts, design, social media, and leadership and editing skills. The course includes ethical, practical, and legal issues in journalism. Strongly Recommended: Eligibility for ENG 1A/1AEX. 18 hours lecture, 108 hours laboratory. Transfer: CSU; C-ID# JOUR 130.

Degree Applicable, Credit Grading Option: OP

JAMS 21B EXPRESS COLLEGE NEWSPAPER B 3 UNITS

An applied course in which students practice and refine intermediate journalism skills, including recognizing, acquiring, producing, and distributing content for the print and online editions of the student newspaper, the Express. Focus is on in-depth news, feature and opinion stories. Students develop intermediate abilities in photojournalism, business management, graphic arts, design, social media, and leadership and editing skills. The course includes ethical, practical, and legal issues in journalism. Prerequisite: JAMS 21A with a minimum grade of C. Strongly Recommended: Eligibility for ENG 1A/1AEX. 18 hours lecture, 108 hours laboratory. Transfer: CSU; C-ID# JOUR 131.

Degree Applicable, Credit Grading Option: OP

JAMS 21C EXPRESS COLLEGE NEWSPAPER C 3 UNITS

An applied course in which students practice and refine advanced journalism skills, including recognizing, acquiring, producing, and

KINESIOLOGY

Kinesiology is an academic area of study concerned with human movement and physical activity. The field of Kinesiology includes a variety of sub-disciplines including exercise physiology, biomechanics, motor control and motor learning, physical education, exercise & sport psychology, and the sociocultural study of movement. Entry-level employment opportunities in the field include: coaching, personal or group training, fitness instruction, fitness specialists, physical therapy assistants, recreation, as well as managerial positions in athletics and recreation centers. The AA-T Kinesiology prepares students for transfer to bachelor's degree programs in Kinesiology; and similar degrees including Exercise Science, Physical Education, Pre-Physical Therapy/Therapeutic Studies, Athletic Training, Coaching and Fitness Management. Advanced degrees in Kinesiology lead to employment opportunities in athletic training, sports management, physical therapy, occupational therapy, teaching physical education, cardiac rehabilitation, coaching, and further study in health/medical fields.

The Kinesiology program also offers students an opportunity to enrich their education with emphasis on physical activity and improved physical well-being.

Athletics

Las Positas College offers an Intercollegiate Athletics program dedicated to assisting each student in achieving the highest possible academic and athletic success. Our faculty and coaches subscribe to the philosophy that athletics plays an integral role in the total educational process and that athletics helps to promote the growth of values in leadership, character, sportsmanship, and teamwork.

Programs of Study

Degrees:

- AA-T – Kinesiology

Certificates of Achievement:

- Athletic Training/Sports Medicine
- Fitness Trainer

AA-T – Kinesiology

About The Degree

The Associate in Arts in Kinesiology for Transfer degree prepares students for transfer to bachelor's degree programs at a CSU in Kinesiology and similar degrees including Exercise Science, Physical Education, Pre-Physical Therapy/Therapeutic Studies, Athletic Training, Coaching and Fitness Management. Advanced degrees in Kinesiology lead to employment opportunities in athletic training, sports management, physical therapy, occupational therapy, teaching physical education, cardiac rehabilitation, coaching, and further

study in health/medical fields. Entry-level employment opportunities in the field include: coaching, personal or group training, fitness instruction, fitness specialists, physical therapy assistants, recreation, as well as managerial positions in athletics and recreation centers.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education - Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Career Opportunities

Entry-level employment opportunities in the field include: coaching, personal or group training, fitness instruction, fitness specialists, physical therapy assistants, recreation, as well as managerial positions in athletics and recreation centers. Students may obtain an AA-T in Kinesiology and then transfer for advanced degrees in Kinesiology at four-year institutions. Advanced degrees in Kinesiology lead to employment opportunities in athletic training, sports management, physical therapy, occupational therapy, teaching physical education, cardiac rehabilitation, coaching, and further study in health/medical fields

Program Outcomes

- Upon completion of the AA-T in Kinesiology, students are able to disseminate the knowledge of physical activity derived from experiences, scholarly study, and professional practice.
- Upon completion of the AA-T in Kinesiology, students are able to identify programs of study within the field of Kinesiology.
- Upon completion of the AA-T in Kinesiology, students are able to perform a variety of motor activities at a proficient level from at least three of the movement-based categories.

Required Core: (13 Units)

BIO 7A (Human Anatomy)	5
BIO 7B (Human Physiology)	5
KIN 30 (Introduction to Kinesiology)	3

Movement-Based Courses: Select One Course Maximum from Any Three of the Following Areas: (3 Units)

Area 1: Aquatics

KIN AQA (Aqua Aerobics)	1
KIN DV1 (Springboard Diving)	1

KIN SW1 (Swimming 1).....	1
KIN SW2 (Swimming 2)	1
KIN SWF1 (Swimming for Fitness 1)	1
KIN SWF2 (Swimming for Fitness 2).....	1
KIN WP1 (Water Polo 1).....	1
KIN WP2 (Water Polo 2).....	1

Area 2: Combatives

KIN ETD1 (Eskrima - Tenio DeCuerdas 1)	1
KIN ETD2 (Eskrima - Tenio DeCuerdas 2).....	1
KIN JDR1 (Jujitsu - Danzan Ryu 1).....	1
KIN JDR2 (Jujitsu - Danzan Ryu 2).....	1
KIN TK2 (Tae Kwon Do 2).....	1

Area 3: Dance

KIN DBS (Dance Aerobics/Body Sculpting)	1
KIN HHA (Hip Hop Aerobics)	1
KIN ID (Introduction to Dance)	1
KIN SD (Salsa Dance 1).....	1

Area 4: Fitness

KIN AFG (Aerobic Fitness Gym).....	1
KIN BC1 (Boot Camp for Flexibly & Core Development).....	1
KIN BC2 (Boot Camp for Aerobic Conditioning).....	1
KIN BSF1 (Body Sculpting for Fitness)	1
KIN CYCL1 (Cycling Conditioning 1).....	1
KIN FW1 (Fitness Walking 1)	1
KIN FW2 (Fitness Walking 2).....	1
KIN GBW (Guts and Butts Workout 1).....	1
KIN JW (Jog/Walk).....	1
KIN PF (Personal Fitness)	1
KIN PL2 (Pilates 2).....	1
KIN PPA1 (Power Platform Aerobics).....	1
KIN WT2 (Weight Training 2)	1
KIN WTW1 (Women's Weight Training One)	1
KIN WTW2 (Women's Weight Training 2).....	1
KIN XT1 (X-Training).....	1
KIN YOF (Yoga Fitness).....	1
KIN YO2 (Yoga 2)	1
KIN ZUM1 (Zumba Fitness Workout 1).....	1

Area 5: Individual Sports

KIN GF1 (Golf 1).....	1
KIN GF2 (Golf 2)	1

Area 6: Team Sports

KIN FL1 (Flag Football 1)	1
KIN FL2 (Flag Football 2)	1
KIN FS1 (Introduction to Futsal)	1
KIN FS2 (Intermediate Futsal).....	1
KIN LAX1 (Lacrosse)	1
KIN SC1 (Soccer Outdoor).....	1
KIN SC2 (Soccer Outdoor 2).....	1
KIN SI (Soccer - Indoor)	1
KIN UF2 (UIKIN VB1 (Volleyball Beginning).....	1
KIN VB2 (Volleyball Intermediate)	1

List A: Select Two (6-10 Units)

BIO 20 (Contemporary Human Biology).....	3
CHEM 1A (General College Chemistry I).....	5
KIN 14 (Responding to Emergencies: Comprehensive First Aid/CPR/AED).....	3
MATH 40 (Statistics and Probability)	4
PHYS 1A (General Physics I) or PHYS 2A (Introduction to Physics I).....	4-5

Total Units for the Major 22-26

Additional General Education and Elective Units 34-38

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

**Certificate of Achievement
Athletic Training/Sports Medicine**

About the Certificate

The Certificate of Achievement in Athletic Training/Sports Medicine is designed be taken in conjunction with the Associate in Arts in Kinesiology for Transfer to prepare students to apply to an Athletic Training Education Program (ATEP) in the CSU system and to complete a baccalaureate degree in Athletic Training or a similar major. Students who obtain the Associate in Arts in Kinesiology for Transfer in conjunction with the Certificate of Achievement in Athletic Training/Sports Medicine will have completed the common core of lower division courses required for a CSU baccalaureate degree in Kinesiology and most prerequisites required for admission into an ATEP program accredited by the Commission on Accreditation of Athletic Training Education (CAATE). General education requirements should be selected carefully based on the intended four-year institution and desired ATEP program. Participation in Kinesiological classes develops critical thinking, personal growth, research abilities, manual therapy skills, and an understanding of working in a clinical and athletic setting. Students should talk with a counselor to determine whether or not this certificate and degree combination is the best option for their academic goals and to ensure efficiency.

Career Opportunities

Career opportunities include work in hospital emergency departments, intercollegiate athletics, law enforcement and military, occupational and industrial settings, performing arts, physician offices, professional sports, secondary schools, sports medicine clinics, corporate settings, community outreach, and health and fitness related jobs.

Program Outcomes

- Upon completion of the Athletic Training/Sports Medicine Certificate of Achievement, students are able to analyze and

categorize various athletic training and related programs (employment settings, educational preparation/programs, certification, continuing education requirements, professional development and responsibilities).

- Upon completion of the Athletic Training/Sports Medicine Certificate of Achievement, students are able to demonstrate the skills relative to activation and implementation of the college athletic department emergency action plan, including primary and secondary surveys of an injured individual, and administration of emergency care procedures (first aid, control of bleeding, wound care, fracture/dislocation packaging, bloodborne pathogen protection and CPR/AED).
- Upon completion of the Athletic Training/Sports Medicine Certificate of Achievement, students are able to apply therapeutic modalities under the supervision of a staff athletic trainer, including thermotherapy, cryotherapy, ultrasound, and electrical stimulation.
- Upon completion of the Athletic Training/Sports Medicine Certificate of Achievement, students are able to explain and identify techniques associated with injury recognition, evaluation and assessment, including taking an appropriate injury history.
- Upon completion of the Athletic Training/Sports Medicine Certificate of Achievement, students are able to identify prominent anatomical landmarks via palpation and assess ranges of motion of the foot, ankle, knee, hip, wrist/hand/thumb, elbow, shoulder and spine.
- Upon completion of the Athletic Training/Sports Medicine Certificate of Achievement, students are able to illustrate basic athletic taping and wrapping applications for injury prevention and management.
- Upon completion of the Athletic Training/Sports Medicine Certificate of Achievement, students are able to critique padding and bracing devices and apply as indicated for injury prevention and management.

Required Core: (28 Units)

BIO 7A (Human Anatomy)	5
BIO 7B (Human Physiology)	5
KIN 17 (Intro to Athletic Training and Sports Medicine)	4
KIN 18A (Athletic Training Practicum 1).....	1
KIN 18B (Athletic Training Practicum 2).....	1
KIN 19 (Care and Prevention of Athletic Injuries)	3
KIN 30 (Introduction to Kinesiology)	3
NTRN 1 (Introduction to Nutrition Science).....	3
PSYC 1 (General Psychology).....	3
Total Units	28

Certificate of Achievement Fitness Trainer

About the Certificate

The Fitness Instructor Certificate of Achievement is designed to prepare students to be employed in the area of fitness training as

personal trainers/instructors and as group fitness instructors. The courses that are offered in the certificate are to prepare students to sit for a nationally recognized fitness organization and will provide a strong foundation in the field of Kinesiology. Students who have successfully completed BIO 7A and BIO 7B may substitute them for BIO 50.

Career Opportunities

Upon successful completion of the certificate students can pursue careers as individual fitness instructors or personal trainers, and also as group fitness instructors. These entry levels positions are primarily offered in the private sector.

Program Outcomes

- Upon completion of the Certificate of Achievement in Fitness Trainer, students are able to work in the field of personal trainers and as a group fitness instructor, and also identify a number of career options in the kinesiology field.
- Upon completion of the Certificate of Achievement in Fitness Trainer, students are able to identify modifiable and non-modifiable risk factors for personal health, locate health information related to behavior change processes, evaluate the credibility of those sources, and integrate and apply scientific research into individual behavior change processes for clients.
- Upon completion of the Certificate of Achievement in Fitness Trainer, students are able to develop and administer a safe and effective periodized exercise program designed for a client.
- Upon completion of the Certificate of Achievement in Fitness Trainer, students are able to estimate heart rate, maximum heart rate and, target heart rate, and perform CPR with AED and rescue Breathing.

Required Core: (14 Units)

BIO 50 (Anatomy and Physiology).....	4
HEA 1 (Introduction to Personal Health)	3
KIN 6 (Personal Trainer).....	3.5
KIN 30 (Introduction to Kinesiology)	3
EMS 70 (CPR for Health Care Providers)	0.5

List A: Select Two (2 Units)

KIN AF1 (Aerobic Fitness 1)	1
KIN AF2 (Aerobic Fitness 2).....	1
KIN BC1 (Boot Camp for Flexibility & Core Development)	1
KIN BC2 (Boot Camp for Aerobic Conditioning).....	1
KIN BC3 (Boot Camp for Power & Strength Training).....	1
KIN BX1 (Box Aerobics 1)	1
KIN BX2 (Box Aerobics 2).....	1
KIN CT1 (Circuit Training 1)	1
KIN CYCL1 (Cycling 1)	1
KIN CYCL2 (Cycling 2)	1
KIN DA1 (Dance Aerobics 1)	1
KIN FC (Fitness Center)	1
KIN FD (Fitness Development)	1
KIN GBW1 (Guts and Butts Workout 1).....	1
KIN HIT1 (High-Intensity Interval Training (HIIT))	1
KIN PL1 (Pilates 1)	1
KIN PL2 (Pilates 2).....	1

KIN SD1 (Salsa Dance Aerobics 1)	1
KIN WT1 (Weight Training 1).....	1
KIN WT2 (Weight Training 2)	1
KIN WTW1 (Women's Weight Training 1)	1
KIN WTW2 (Women's Weight Training 2).....	1
KIN ZUM1 (Zumba Fitness Workout 1).....	1

Total Units 16

Kinesiology Activity Courses (KIN)

KIN AF1 AEROBIC FITNESS 1 1 UNIT

This course will present and implement the fundamental principles of Cardio/Aerobic Fitness training. Methods of assessing and monitoring aerobic intensity will be discussed and documented in class. The health and fitness benefits of cardio/aerobic conditioning will be presented. A variety of aerobic gym equipment will be used to achieve cardiopulmonary fitness and healthy body composition. 54 hours laboratory. Family: Kinesiology Aerobics. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN AF2 AEROBIC FITNESS 2 1 UNIT

This is an intermediate conditioning class that emphasizes cardiovascular endurance activities through a variety of exercises that stimulate heart and lung activity. Interval calisthenics are used as a warm-up, and then activities that develop increased aerobic efficiency will be performed by the students. 54 hours laboratory. Family: Kinesiology Aerobics. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN AR1 ARCHERY 1 - BEGINNING ARCHERY 1 UNIT

Covers the fundamental techniques of archery, terminology, accessories, and history of the sport. Students will acquire knowledge in the safe use and proper care of equipment, along with range safety. Practice and class competitions are provided to enhance skill development. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BC1 BOOT CAMP FOR FLEXIBILITY & CORE DEVELOPMENT 1 UNIT

Improve flexibility and core development (thus providing stability to our movements) through a variety of drills and military style movements. Functional training delivered in an intense environment. 54 hours laboratory. Family: Kinesiology Boot Camp. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BC2 BOOT CAMP FOR 1 UNIT

AEROBIC CONDITIONING

Improve aerobic capacity, muscle endurance and cardiorespiratory fitness through a variety of drills and military style movements. Functional training delivered in an intense environment. 54 hours laboratory. Family: Kinesiology Boot Camp. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BC3 BOOT CAMP FOR POWER & STRENGTH TRAINING 1 UNIT

Improve muscle strength & power through a variety of drills and military style movements. Functional training delivered in an intense environment. 54 hours laboratory. Family: Kinesiology Boot Camp. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BD1 BADMINTON 1 1 UNIT

Introduction to the fundamental techniques of badminton (for example, the forehand and backhand serve, service return, and lob shots). Course will also include grip, footwork, rules, equipment and court dimensions. 54 hours laboratory. Family: Kinesiology Badminton. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BD2 BADMINTON 2 1 UNIT

The techniques of badminton for the intermediate player will be reviewed and performed. This course will also incorporate match analysis for singles and doubles play. Strongly Recommended: KIN BD1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Badminton. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BD3 BADMINTON 3 1 UNIT

Badminton strategy for singles and doubles play. The body's physiological responses to singles and doubles play will be examined. Strongly Recommended: KIN BD2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Badminton. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BK1 BASKETBALL 1 1 UNIT

This multi-level course is designed to provide the student with an opportunity to development the basic skills and understanding of basketball. Skills such as dribbling, passing, shooting, defensive and offensive strategies will be presented and practiced. Team play and sportsmanship are important priorities that are emphasized in this class. 54 hours laboratory. Family: Kinesiology Basketball. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BK2 BASKETBALL 2 1 UNIT

This course is designed to provide the student with an opportunity to develop the skills and understanding of basketball at the advanced level. Skills such as dribbling, passing, shooting, defensive and offensive strategies will be presented and practiced. Team play and sportsmanship are important priorities that are emphasized in this class. Strongly Recommended: KIN BK1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Basketball. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BK3 BASKETBALL 3 1 UNIT

Designed to teach advanced skills of basketball. Strongly Recommended: KIN BK2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Basketball. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BK4 BASKETBALL 4 1 UNIT

Designed to teach pre-competitive basketball. Strongly Recommended: KIN BK3 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Basketball. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BL1 BOWLING 1 1 UNIT

This course is designed to give the student the opportunity to learn the basic skills, terminology, and etiquette of bowling and be able to participate in a league type bowling program using off-campus bowling centers. 54 hours laboratory. Family: Kinesiology Bowling. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BL2 BOWLING 2 1 UNIT

This course teaches the fundamental skills of bowling with emphasis on form, terminology and scoring. The student will have the opportunity for class competition. The class will be conducted at an off campus bowling establishment. Facility use fee required. To be paid throughout the semester at the facility. Strongly Recommended: KIN BL1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Bowling. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BL3 BOWLING 3 1 UNIT

This course teaches intermediate skills of bowling with emphasis on etiquette, terminology and equipment. The student will have the opportunity for class competition. The class will be conducted at an off campus bowling establishment. Facility use fee required. To be paid throughout the semester at the facility. Strongly Recommended:

KIN BL2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Bowling. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units..

Degree Applicable, Credit Grading Option: OP

KIN BL4 BOWLING 4 1 UNIT

This course teaches advanced skills of bowling with emphasis on form, rules, and etiquette. The student will have the opportunity for class competition. The class will be conducted at an off campus bowling establishment. Facility use fee required. To be paid throughout the semester at the facility. Strongly Recommended: KIN BL3 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Bowling. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BX1 BOX AEROBICS 1 1 UNIT

Course is designed to give the student an opportunity to experience a combination of martial arts and aerobic exercise for the benefit of physical fitness. Exercises will include jumping rope, push-ups, abdominal work, cardiovascular exercise, strength training and toning exercises, box aerobics drills and stretching. 54 hours laboratory. Family: Kinesiology Box Aerobics. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BX2 BOX AEROBICS 2 1 UNIT

This course is for beg/intermediate students, who have an interest in the progressive development of the martial arts. The course is designed with beginning/intermediate martial arts movements and boxing drills to improve overall health and fitness. Sport Taekwondo footwork is applied with modern boxing skills to promote progression of personal physical capabilities. A component of strength training for upper body and core will be included. Traditional Korean philosophies & terminology will be utilized in class to focus on the mind, body, and spirit relationship. Strongly Recommended: KIN BX1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Box Aerobics. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN BX3 BOX AEROBICS 3 1 UNIT

Advanced combinations of traditional martial arts kicks, Olympic sport Tae kwon do footwork, applied with modern boxing increases agility and flexibility; building on the foundations of balance and strength from KIN BX2. Students practice an understanding of proper Martial Arts etiquette and demonstrate the traditional philosophies employed in martial arts traditional Korean Terminology is practiced in class Focusing on the mind, body, and spirit. Strongly Recommended: KIN BX2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Box Aerobics. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN CR1 CRICKET 1 1 UNIT

An introduction to the sport of Cricket. This course will introduce the student to the fundamentals of cricket including; batting, bowling and fielding. 54 hours laboratory. Family: Kinesiology Cricket. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN CR2 CRICKET 2 1 UNIT

Cricket 2 will provide students with instruction in the art of batting, bowling and fielding at an intermediate level of play. 54 hours laboratory. Family: Kinesiology Cricket. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN CRT CROSS TRAINING 1 UNIT

This kinesiology class will offer the student an opportunity to learn how to exercise safely in a Weight/Cardio gym. Circuit, Interval and Cross Training programs will be introduced. The topics of discussion will include: equipment orientation and safety, Principles of Resistance and Aerobic Training, energy systems used for various training regimens, and the benefits of exercise in establishing and maintaining a healthy lifestyle throughout life. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN CT1 CIRCUIT TRAINING 1 1 UNIT

This course will increase muscular endurance/strength as well as cardiovascular conditioning through the use of strength and cardio circuits utilizing a wide variety of equipment such as treadmills, bosu balls, battling ropes, free weights and sandbags. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN CYCL1 CYCLING 1 1 UNIT

This course is an introduction to Physical Fitness through indoor cycling. The cycling program is an individually paced, noncompetitive, group training program designed for all riders and all fitness levels. Cycling is an exercise performed on a stationary bicycle and is performed to music. The course is open to anyone who is interested in developing muscular endurance, improved cardio-respiratory endurance and body composition. 54 hours laboratory. Family: Kinesiology Cycling. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN CYCL2 CYCLING 2 1 UNIT

This course is the second in a series of Indoor Cycling courses. Emphasis is based on beginning to intermediate cycling techniques, heart rate calculations, fitness evaluations, and cardiovascular training and program design. Beginning level principles of physiology

are explored including how to train to elicit a desired physiological response. Utilizing a variety of equipment student will develop core endurance and strength. This class is designed for students interested in aerobic fitness improvement through indoor cycling as well as Kinesiology majors. 54 hours laboratory. Family: Kinesiology Cycling. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN CYCL3 CYCLING 3 1 UNIT

This is an advanced course of fitness through indoor cycling. The cycling program is an individually paced, group training program. Cycling is an exercise performed on a stationary bicycle and is performed usually to music. This course is designed to build upon the base levels of fitness developed in Cycling 1 and Cycling 2 courses while increasing the development cardio-respiratory endurance and overall body strength. 54 hours laboratory. Family: Kinesiology Cycling. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN DA1 DANCE AEROBICS 1 1 UNIT

A combination of aerobic dance and specific resistance training. Improves cardio-respiratory endurance and tones major muscle groups. 54 hours laboratory. Family: Kinesiology Dance. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN DV1 SPRINGBOARD DIVING 1 UNIT

This course is designed to give students an introduction into the sport of Springboard Diving. Instruction will include 1 meter and 3 meter springboards, and the 5 types of dives (forward, backward, reverse, inward, twisting). Strongly Recommended: KIN SW1 with a minimum grade of C. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN ETD1 ESKRIMA - TENIO DECUERDAS 1 1 UNIT

An introductory course of the Filipino martial art system of Tenio DeCuerdas Eskrima: a complete system incorporating the use of various weapons and empty-hand techniques. The course will focus on history of the system, basic movement and striking, beginning hand movements, beginning use of daga, and how to receive beginning techniques safely. 54 hours laboratory. Family: Kinesiology Tenio DeCuerdas Eskrima. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN ETD2 ESKRIMA - TENIO DECUERDAS 2 1 UNIT

A second semester course of the Filipino martial art system of Tenio DeCuerdas Eskrima. The course will focus on the history of the head of the system, elementary striking, footwork, and daga

techniques, and how to receive elementary techniques safely. Strongly Recommended: KIN ETD1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Tenio DeCuerdas Eskrima. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN ETD3 ESKRIMA - TENIO DECUERDAS 3 1 UNIT

A third semester course of the Filipino martial art system of Tenio DeCuerdas Eskrima. The course will focus on intermediate footwork, open-hand, and daga techniques, and how to receive intermediate techniques safely. Strongly Recommended: KIN ETD2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Tenio DeCuerdas Eskrima. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN ETD4 ESKRIMA - TENIO DECUERDAS 4 1 UNIT

A fourth semester course of the Filipino martial art system of Tenio DeCuerdas Eskrima. The course will focus on advanced striking, footwork, and daga techniques, and how to receive advanced techniques safely. Strongly Recommended: KIN ETD3 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Tenio DeCuerdas Eskrima. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FC FITNESS CENTER 1 UNIT

Students will be presented instruction on how to development and maintain the components of fitness: muscular strength, muscular endurance, cardiovascular endurance, flexibility and body composition. Students will learn how to design an individualized exercise program based on sound training principles and personal goals. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FD FITNESS DEVELOPMENT 1 UNIT

Introduction to the components of fitness development. Students will be presented instruction on how to maintain and development the components of fitness: muscular strength, muscular endurance, cardiovascular endurance, flexibility and balance. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FG1 FOOTGOLF 1 1 UNIT

This is an introductory course to the sport of Footgolf. Footgolf is a combination of the popular sports of soccer and golf. On a shortened golf course, players kick a regulation size 5 soccer ball into a large hole in as few shots as possible. This course will focus

on the history, rules, and the etiquette of the sport and how to apply putting techniques effectively. The course will be offered on campus and at a local golf course. Students will be charged a minimal fee each time they use the Footgolf course. 54 hours laboratory. Family: Kinesiology Footgolf. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FG2 FOOTGOLF 2 1 UNIT

A second semester course for the sport of Footgolf. Footgolf is a combination of the popular sports of soccer and golf. On a shortened golf course, players kick a regulation size 5 soccer ball into a large hole in as few shots as possible. This course will focus on the first shot of teeing off and the different techniques to drive a ball for distance and accuracy. The course will be offered on campus and at a local golf course. Students will be charged a minimal fee each time they use the Footgolf course. Strongly Recommended: KIN FG1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Footgolf. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FG3 FOOTGOLF 3 1 UNIT

A third semester course for the sport of Footgolf. Footgolf is a combination of the popular sports of soccer and golf. On a shortened golf course, players kick a regulation size 5 soccer ball into a large hole in as few shots as possible. This course will focus on the ways to kick when on the fairway and when approaching the green. The course will be offered on campus and at a local golf course. Students will be charged a minimal fee each time they use the Footgolf course. Strongly Recommended: KIN FG2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Footgolf. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FGS1 FOOTGOLF SUMMER 1 0.5 UNITS

This is an introductory summer course for the sport of Footgolf. Footgolf is a combination of the popular sports of soccer and golf. On a shortened golf course, players kick a regulation size 5 soccer ball into a large hole in as few shots as possible. This course will focus on the rules, the etiquette of the sport and the tactical approach to reading the green and determining how to address the putt. The course will be offered on campus and at a local golf course. Students will be charged a minimal fee each time they use the Footgolf course. 27 hours laboratory. Family: Kinesiology Footgolf. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FGS2 FOOTGOLF SUMMER 2 0.5 UNITS

A second semester summer course for the sport of Footgolf. Footgolf is a combination of the popular sports of soccer and golf. On a shortened golf course, players kick a regulation size 5 soccer ball into a large hole in as few shots as possible. This course will focus on the tactical approach to reading the tee box, the distance to the fairway and determining which drive to use. The course will be

offered on campus and at a local golf course. Students will be charged a minimal fee each time they use the Footgolf course. Prerequisite: KIN FGS1 with a minimum grade of C. 27 hours laboratory. Family: Kinesiology Footgolf. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FGS3 FOOTGOLF SUMMER 3 0.5 UNITS

A third semester summer course for the sport of Footgolf. Footgolf is a combination of the popular sports of soccer and golf. On a shortened golf course, players kick a regulation size 5 soccer ball into a large hole in as few shots as possible. This course will focus on the tactical approach to reading the fairway and the distance to the green. The course will be offered on campus and at a local golf course. Students will be charged a minimal fee each time they use the Footgolf course. Prerequisite: KIN FGS2 with a minimum grade of C. 27 hours laboratory. Family: Kinesiology Footgolf. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FJW1 FITNESS JOG WALK 1 1 UNIT

This course is an introduction to a cardiovascular activity that will benefit anyone, regardless of age or fitness level. Individualized walking programs are designed to promote general overall fitness. Jogging and walking capabilities will be enhanced as a result of the exercise undertaken and the cardiovascular training related assignments. 54 hours laboratory. Family: Kinesiology Fitness Walking. AA/AS GE.: VA Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FJW2 FITNESS JOG WALK 2 1 UNIT

This is a progressive continuation course to Fitness Jog Walk 1. Biomechanical analysis and fundamental principles of training for this activity will be reviewed. Basic exercise physiology will be discussed. The student will be given training regimens to increase their pace, speed, distance and endurance for middle distances (e.g. 5K - 10K). Nutritional requirements and dietary advice will be presented. Student training logs will be employed to document performance. Pre and post walk/jog assessments will be conducted to establish a baseline of conditioning and illustrate performance levels. Strongly Recommended: KIN FJW1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Fitness Walking. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FJW3 FITNESS JOG WALK 3 1 UNIT

This is a progressive continuation course to Fitness Jog Walk 2. The course will continue to enhance one's knowledge of using walking/jogging in competition, whether it be cross country events, local race events, fun runs or competitive recreational events. Emphasis will be on speed work, terrain training, endurance development and training for varying outdoor weather conditions. The physiological and psychological aspects of competitive activity is presented. Training regimens and performances will be documented in logs for assessment

and training adjustments. Nutritional and treatment of typical chronic orthopedic injuries will be discussed. Extracurricular and off campus events will be encouraged. Strongly Recommended: KIN FJW2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Fitness Walking. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FJW4 FITNESS JOG WALK 4 1 UNIT

This is a progressive continuation course to Fitness Jog Walk 3. This course focuses on walking and/or jogging to enhance one's cardiovascular fitness, body composition, and overall general health. This course is ideal for the general population to begin or continue a lifetime of exercise. Walking/Jogging techniques, training intensity assessment, methods for improvement and personal programs will be provided during the course. With consistent practice and implementing sound fitness principles provided by this course, one will benefit from participation. Proper jog/walk technique, progressive training programs, nutrition, hydration, and injury prevention will be addressed. Strongly Recommended: KIN FJW3 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Fitness Walking. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FL1 FLAG FOOTBALL 1 1 UNIT

This is an introductory course designed to give the student an opportunity to review and practice the basic fundamental skills relative to the game of flag football. 54 hours laboratory. Family: Kinesiology Flag Football. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FL2 FLAG FOOTBALL 2 1 UNIT

This is an intermediate course designed to teach students the principles of short-field flag football. Instruction will include: rules, regulations, and concepts of play for 4-on-4 and 5-on-5 flag football. Strongly Recommended: KIN FL1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Flag Football. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FL3 FLAG FOOTBALL 3 1 UNIT

This course is a continuation course for Flag Football 2. Review of the rules and regulations will be included. This level

course will provide instruction on more complex offensive tactics, defensive strategies and concepts of play for 7 on 7 and 8 on 8 flag football. Students will receive instruction on the principles of long-field flag football. Strongly Recommended: KIN FL1 with a minimum grade of C, KIN FL2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Flag Football. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

KIN FL4 FLAG FOOTBALL 4 1 UNIT

This is an advanced course designed to teach students competitive strategies for flag football. Advanced offensive and defensive strategies for 4v4, 5v5, 7v7, and 8v8 will be discussed. Prerequisite: KIN FL1 with a minimum grade of C, KIN FL2 with a minimum grade of C, KIN FL3 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Flag Football. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN FNE1 FENCING - EPEE 1 1 UNIT

This course is an introduction to epee. Emphasis is on the technical and tactical skills unique to epee fencing. Basic skills include the development of correct footwork, precise blade action, and sound tactical decisions. 54 hours laboratory. Family: Kinesiology Fencing. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN FNE2 FENCING - EPEE 2 1 UNIT

This is a second semester course for epee. Emphasis is establishing consistent technical and tactical skills unique to epee fencing. There will be introduction to use of electrical equipment. Strongly Recommended: KIN FNE1 with a minimum grade of C, Footwork movements (advance, retreat, and lunge) must be correct and controlled. 54 hours laboratory. Family: Kinesiology Fencing. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN FNF1 FENCING - FOIL 1 1 UNIT

This course is an introduction to foil. Emphasis is on the technical and tactical skills unique to foil fencing. Basic skills include the development of correct footwork, precise blade action, and sound tactical decisions. 54 hours laboratory. Family: Kinesiology Fencing. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN FNF2 FENCING - FOIL 2 1 UNIT

This is a second semester course for foil. Emphasis is establishing consistent technical and tactical skills unique to foil fencing. There will be introduction to use of electrical equipment. Strongly Recommended: KIN FNF1 with a minimum grade of C, Footwork movements (advance, retreat, and lunge) must be correct and controlled. 54 hours laboratory. Family: Kinesiology Fencing. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

KIN FJW1 FITNESS JOG WALK 1 1 UNIT

This course is an introduction to a cardiovascular activity that will benefit anyone, regardless of age or fitness level. Individualized walking programs are designed to promote general overall fitness. Jogging and walking capabilities will be enhanced as a result of the exercise undertaken and the cardiovascular training related

assignments. 54 hours laboratory. Family: Kinesiology Fitness Walking. AA/AS GE. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN FJW2 FITNESS JOG WALK 2 1 UNIT

This is a progressive continuation course to Fitness Jog Walk 1. Biomechanical analysis and fundamental principles of training for this activity will be reviewed. Basic exercise physiology will be discussed. The student will be given training regimens to increase their pace, speed, distance and endurance for middle distances (e.g. 5K - 10K). Nutritional requirements and dietary advice will be presented. Student training logs will be employed to document performance. Pre and post walk/jog assessments will be conducted to establish a baseline of conditioning and illustrate performance levels. Strongly Recommended: KIN FJW1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Fitness Walking. AA/AS GE. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN GBW1 GUTS AND BUTTS WORKOUT 1 1 UNIT

This course will focus on improving muscle strength and endurance of the abdominals, gluteals, quadriceps, and hamstrings. Functional exercises such as squats, lunges and planks will be utilized. 54 hours laboratory. Family: Kinesiology Guts and Butts. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN GBW2 GUTS AND BUTTS WORKOUT 2 1 UNIT

This course will focus on strengthening the core and glute muscles. Students will learn how to use equipment such as steps, TRX, swiss balls, and dumbbells to increase exercise intensity. Strongly Recommended: KIN GBW1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Guts and Butts. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN GF1 GOLF 1 1 UNIT

This is an introductory course to the sport of golf. The course will include the rules, regulations and etiquette of golf, the fundamental swing skills for the long and short game and appropriate club selection. Beg-Intermediate and Intermediate players can benefit from the basic instruction to improve their skill set through the art of practice on the range. The course will be offered at a local golf range and student will be charged a minimal fee for bucket of balls to be used. 54 hours laboratory. Family: Kinesiology Golf. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

KIN GF2 GOLF 2 1 UNIT

and Yogic Breathing will be included in the curriculum. This course is appropriate for all fitness levels and valuable to Kinesiology majors for its applied anatomy and biomechanics of optimal movement. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN PF PERSONAL FITNESS 1 UNIT

An independent, self paced, personal activity program planned and implemented in conjunction with student goals. Based on goals and results of a fitness assessment and health risk appraisal, an individualized program is developed through personal counseling. Programs can include a physical assessment profile, a health risk appraisal, an individualized exercise/activity program, nutrition counseling, health/wellness education, and behavior modification. The student is required to meet with the instructor on campus at the beginning and end of the semester. This is a hybrid class in which the students are assessed and there is a lecture component in the beginning of the class. At the end of the term the students will be reassessed and there will be individual instruction, handouts and another face-to-face lecture. 9 hours lecture, 27 hours laboratory. Family: Kinesiology Personal Fitness. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN PL1 PILATES 1 1 UNIT

This course is an introduction to the Pilates Method of body conditioning. This course presents a system that helps build flexibility and long lean muscles as well as strength and endurance in the legs, abdominals, arms, hips and back. Strong emphasis is placed on spinal and pelvic alignment. 54 hours laboratory. Family: Kinesiology Pilates. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN PL2 PILATES 2 1 UNIT

This Kinesiology course is continued study of the Pilates Method. The student will learn the principle of neutral spine, how to use Pilates props to provide variation and increased difficulty, and create level 2 exercise routines to enhance overall fitness. The concept of "complete coordination of the body, mind and spirit" will be experienced. Strongly Recommended: KIN PL1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Pilates. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN SD1 SALSA DANCE AEROBICS 1 1 UNIT

An introductory course in salsa music and the basics of salsa dance. Various patterns will be introduced, allowing students to improve their technique and develop a strong awareness of the rhythm of the dance. No partner required. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN SI1 SOCCER – INDOOR 1 1 UNIT

Students will practice the skills of kicking, passing, trapping and heading necessary for controlled indoor soccer play. Students will discuss and employ basic offensive and defensive strategies and tactics; and put into practice the rules governing soccer. 54 hours laboratory. Family: Kinesiology Soccer Indoor. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN SI2 SOCCER - INDOOR 2 1 UNIT

A second semester course for outdoor soccer. This course will focus on the defensive and offensive tactics of the sport. Students will use the skills covered in Indoor Soccer 1 (SI1) while participating in both small sided and full sided play. Strongly Recommended: KIN SI1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Soccer Indoor. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN SO1 SOCCER - OUTDOOR 1 1 UNIT

This course will teach students the rules of soccer and the fundamental skills of soccer including passing, receiving, shooting, and dribbling. Students will participate in both small-sided and full-sided play. 54 hours laboratory. Family: Kinesiology Soccer Outdoor. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN SO2 SOCCER - OUTDOOR 2 1 UNIT

A second semester course for outdoor soccer. This course will focus on the defensive and offensive tactics of the sport. Students will use the skills covered in Soccer - Outdoor 1 (SO1) while participating in both small sided and full sided play. Strongly Recommended: KIN SO1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Soccer Outdoor. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN SW1 SWIMMING 1 1 UNIT

An introductory course designed to teach basic swimming skills and is designed for non-swimmers who cannot complete one length of the pool (25 yards). Emphasis will be on the physical and psychological adjustment to the water as well as basic swimming stroke technique. Students will also learn aquatics safety methods. 54 hours laboratory. Family: Kinesiology Swimming. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN SW2 SWIMMING 2 1 UNIT

This is a beginning level course designed to teach fundamental swimming skills. Emphasis will be on developing basic swimming techniques for the freestyle and backstroke, and include an introduction to breaststroke, butterfly, and sidestroke. Students will

also learn aquatic safety methods. Strongly Recommended: KIN SW1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Swimming. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN SW3 SWIMMING 3 1 UNIT

This is an Intermediate Swimming course. Instruction includes refining the competitive strokes (freestyle, backstroke, butterfly, breaststroke) of the individual medley, and competitive turns for each stroke. Strongly Recommended: KIN SW2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Swimming. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN SW4 SWIMMING 4 1 UNIT

This is an advanced course designed to enhance the overall knowledge and technique for the aspiring swimmer. Instruction will include an in depth analysis of stroke, turn, and start techniques used in competition (Intercollegiate, High School, Open Water, Triathlon, USA Swimming, and Recreational League). Strongly Recommended: KIN SW3 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Swimming. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN SWF1 SWIMMING FOR FITNESS 1 1 UNIT

This course is designed to introduce students to conditioning for swimming. This is a broad level course that will utilize a variety of strokes to increase cardiovascular fitness, as well as introduce the students to different training methodologies. Strongly Recommended: KIN SW2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Swimming Fitness. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN SWF2 SWIMMING FOR FITNESS 2 1 UNIT

This is an intermediate level swim fitness course with an emphasis in sprint training. This course will teach the student about the different aspects of sprint training as they relate to different distances (50 and 100 yards/meters). Instruction will also include sprint training for each of the competitive strokes (backstroke, breaststroke, and butterfly). Strongly Recommended: KIN SWF1 with a minimum grade of C, KIN SW3 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Swimming Fitness. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN SWF3 SWIMMING FOR FITNESS 3 1 UNIT

This is an intermediate level swim fitness course with an emphasis in middle distance training. This course will teach the student about the different aspects of middle distance training for freestyle as they

relate to specific race distances: 200, 400, and 500. Instruction will also focus on the 200 & 400 Individual Medley and the 200's of the strokes (backstroke, breaststroke, and butterfly). Strongly Recommended: KIN SWF1 with a minimum grade of C, KIN SW3 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Swimming Fitness. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN SWF4 SWIMMING FOR FITNESS 4 1 UNIT

This is an intermediate level swim fitness course with an emphasis in distance training. This course will teach the student about the different aspects of distance training for freestyle as they relate to specific race distances: 800/1500 meters and 1000/1650 yards. Instruction will also include an introduction to open water swimming techniques and strategies. Strongly Recommended: KIN SWF1 with a minimum grade of C, KIN SW3 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Swimming Fitness. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN TK1 TAE KWON DO 1 1 UNIT

A beginning level self-defense course designed to teach fundamental techniques of Taekwondo. Developing basic techniques in kicking, punching and sparring, the course will introduce concepts of fitness and cardio-respiratory conditioning achieved through participating in Taekwondo. This course is structured as a martial arts class. 54 hours laboratory. Family: Kinesiology Tae Kwon Do. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN TK2 TAE KWON DO 2 1 UNIT

This martial arts course is structured as a continuation from Level 1 Taekwondo. The intermediate techniques of kicking, punching and sparring will reinforce concepts of fitness and cardiorespiratory conditioning achieved through participating in Taekwondo. Students will learn intermediate self-defense techniques from Taekwondo skills. Attending and observing local tournaments will be assigned as an off campus activity. Strongly Recommended: KIN TK1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Tae Kwon Do. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN TK3 TAE KWON DO 3 1 UNIT

This martial arts course is structured as a continuation from Level 2 Taekwondo. The advanced techniques of blocks, kicks and stances will reinforce concepts of fitness, cardio-respiratory conditioning, strength and balance achieved through participating in Taekwondo. Students will learn advanced self-defense techniques and advanced required forms in Accordance with World Taekwondo Federation Regulations. Attending and observing local tournaments will be assigned as an off campus activity. Strongly Recommended: KIN TK2 with a minimum grade of C. 54 hours laboratory. Family:

Kinesiology Tae Kwon Do. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN UF1 ULTIMATE FRISBEE 1 1 UNIT

This is an introductory course designed to teach students basic skills of ultimate frisbee and "spirit of the game". Instruction will include learning basic throws, catches, offensive and defensive strategies, and rules of the game. 54 hours laboratory. Family: Kinesiology Ultimate Frisbee. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN UF2 ULTIMATE FRISBEE 2 1 UNIT

This is a beginning/intermediate level course designed to enhance skills that pertain to the sport of Ultimate Frisbee. Instruction will include throwing, catching, pivoting and marking skills. Offensive and defensive strategies will be introduced. Strongly Recommended: KIN UF1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Ultimate Frisbee. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN UF3 ULTIMATE FRISBEE 3 1 UNIT

This is an advanced level course designed to master the skills necessary to compete in the sport of ultimate frisbee. Instruction will include increasing throwing distance and accuracy, offensive and defensive strategies, and aerobic conditioning. Strongly Recommended: KIN UF2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Ultimate Frisbee. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN UF4 ULTIMATE FRISBEE 4 1 UNIT

This is a progressive competitive level course designed to prepare students for tournament play in the sport of ultimate frisbee. Instruction will provide a strong emphasis on high levels physical conditioning required for competitive play such as agility, speed, and endurance. Instruction will discuss successful game management and coaching philosophy. Prerequisite: KIN UF3 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Ultimate Frisbee. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN VB1 VOLLEYBALL BEGINNING 1 UNIT

Provides instruction on the individual and team skills and strategies of volleyball. 54 hours laboratory. Family: Kinesiology Volleyball. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN VB2 VOLLEYBALL INTERMEDIATE 1 UNIT

This is a course designed and developed for the intermediate level

volleyball player. It is a continuation of beginning volleyball with an emphasis in executing the fundamental skills and techniques of power volleyball at a higher level. This course differs from beginning volleyball in that set patterns and systems of offense and defense are used in a team strategy. Before enrolling student should have proficiency in the skills of passing and setting. Strongly Recommended: KIN VB1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Volleyball. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN VB3 VOLLEYBALL ADVANCED 1 UNIT

Advanced techniques of volleyball with emphasis on competitive play. Strongly Recommended: KIN VB2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Volleyball. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN WP1 WATER POLO 1 1 UNIT

This course is an introduction to the sport of Water Polo. Instruction will include individual skills relating to the play of water polo. Instruction will also include rules, regulations, and basic team play. Strongly Recommended: KIN SW2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Water Polo. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN WP2 WATER POLO 2 1 UNIT

This is an intermediate course designed to give the student the opportunity to learn and enhance personal and team skills relating to the game of Water Polo. Instruction will focus on advancing individual skills, team strategies, and an appreciation for competition. Strongly Recommended: KIN WP1 with a minimum grade of C, KIN SW2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Water Polo. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN WP3 WATER POLO 3 1 UNIT

This course is designed to give students the opportunity to learn and apply specific conditioning skills relating to the game of Water Polo. Instruction will focus on speed, quickness, strength, and cardiovascular conditioning in the pool as they relate to the play of Water Polo. Concepts of dryland training and periodization will be discussed. Strongly Recommended: KIN WP1 with a minimum grade of C, KIN SW2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Water Polo. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. ** Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN WT1 WEIGHT TRAINING 1 1 UNIT

This course provides an introduction to weight training. Students will

learn how to improve muscle strength and muscle endurance through the correct application of basic weight training principles. 54 hours laboratory. Family: Kinesiology Weight Training. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN WT2 WEIGHT TRAINING 2 1 UNIT

Weight Training 2 is a continuation course to the Basic course WT1. The Principles of Training, Level 2 terminology and weight training biomechanics will be presented. Level 2 programs and possible variations will be applied in the prescription of the personal weight training program. The course will incorporate lectures on possible injuries and prevention in a more advanced weight training setting. Implementation of goal setting, tracking, analyzing, progressing individual programs will be included. Strongly Recommended: KIN WT1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Weight Training. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN WTW1 WOMEN'S WEIGHT TRAINING 1 1 UNIT

This specialized course will provide an orientation to the basic weight training machines available in gyms/clubs and proper gym etiquette, a study of the basic musculoskeletal anatomy and kinesiology of the female body, present the fundamental tenets of weight training, discuss how to maintain healthy body composition, and information on designing a weight training program to achieve attainable personal goals. Pre/Post Fitness Assessments will be conducted to establish a baseline of fitness and a measuring instrument for improvement toward weight training goals. Through proper education and implementation of sound weight training principles, the female student will be able to maintain a healthy lifestyle throughout various stages of life. 54 hours laboratory. Family: Kinesiology Weight Training for Women. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN WTW2 WOMEN'S WEIGHT TRAINING 2 1 UNIT

Women's Weight Training 2 is a continuation course to Women's Weight Training 1. Students will increase muscular strength and/or muscular endurance using weight machines, free weights, and body weight exercises. Implementation of program design and goal setting will be included. Strongly Recommended: KIN WTW1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Weight Training for Women. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN YIN1 YIN YOGA 1 1 UNIT

This course is an introduction to the practice of Yin Yoga. Yin Yoga is a meditative, therapeutic practice that combines slow dynamic movement with longer static holds. Yin poses are held for 3-5

minutes, cultivating mindfulness, introspection, and the deeper aspects of Yoga. Longer hold times stimulate connective tissue, signaling the body to create more resilient ligaments, joints, deep fascial networks and bones. Appropriate for all levels. 54 hours laboratory. Family: Kinesiology Yin Yoga. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.* Degree Applicable, Credit Grading Option: OP

KIN YO1 YOGA 1 1 UNIT

This is an introductory course exploring the principles of Hatha Yoga and how they apply to achieving lifetime fitness. Emphasis is on developing awareness of body alignment, balance, and flexibility through a series of Vaf exercises and poses. Breadthing exercises, relaxation and meditation techniques are learned and practiced throughout the course. 54 hours laboratory. Family: Kinesiology Yoga. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN YO2 YOGA 2 1 UNIT

This is an intermediate Hatha Yoga course that emphasizes intense stretching, balancing, and building of muscular strength. A series of poses and Breadthing techniques will be practiced in order to create a more strenuous yoga experience. Emphasis will be on the principles of healthy living, along with proper posture, relaxation and meditation techniques. Strongly Recommended: KIN YO1 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Yoga. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN YO3 YOGA 3 1 UNIT

This is an intermediate/advanced Hatha Yoga course that introduces the student to a variety of Yoga styles and meditation practices. Gentle, Restorative, and Vinyasa Yoga along with various meditation techniques will be practiced, improving concentration, physical endurance, flexibility, balance, and posture. The course integrates intermediate Breadthing techniques to deepen the level of introspection in both poses and meditation. Basic Sanskrit terminology will be introduced. Emphasis will be placed on mindfulness and strengthening the mind/body connection. Strongly Recommended: KIN YO1 with a minimum grade of C, KIN YO2 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Yoga. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

KIN YO4 YOGA 4 1 UNIT

This course introduces the student to the advanced practice of Yoga and meditation. Students learn the practice of vigorous Vinyasa flow to improve concentration, physical endurance, flexibility, balance and posture. This course integrates Yoga philosophy and advanced Breadthing techniques to deepen the mind/body connection and reduce stress. Prerequisite: KIN YO3 with a minimum grade of C. 54 hours laboratory. Family: Kinesiology Yoga. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. **Any or all of these PE Activity*

courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: OP

**KIN ZUM1 ZUMBA FITNESS
WORKOUT 1 1 UNIT**

Zumba is a Latin-inspired, dance-fitness workout class that incorporates Latin American inspired music, along with jazz, hip hop, pop, country and African inspired international music. Zumba workouts will use choreographed steps and movements to form a fitness based calorie burning dance workout. 54 hours laboratory. Family: Kinesiology Zumba. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. * *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: OP

Kinesiology Theory Courses (KIN)

KIN 5 SPORTS MANAGEMENT 3 UNITS

Course content includes how to organize, manage, plan, staff, direct, and control a sports program. Furthermore, areas such as Title IX, budget, facilities management, sports law, scheduling, officials, sports marketing, transportation, public relations, parent and booster clubs, purchase and care of athletic equipment, fund raising. This course will provide an overview of the many careers available in the sports management industry. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

KIN 6 PERSONAL TRAINER 3.5 UNITS

This course emphasizes the theoretical and hands on skills required of personal trainers, coaches and fitness professionals. This course will bridge the gap between exercise science, kinesiology and practical hands-on learning by integrating the latest in scientific and physiologically based research. This class will have lectures, labs, group work/discussions and assignments. 54 hours lecture, 27 hours laboratory. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

**KIN 14 RESPONDING TO
EMERGENCIES: COMPREHENSIVE
FIRST AID/CPR/AED 3 UNITS**

This course involves the theory and detailed demonstration of the first aid care of the injured. The student will learn to assess a victim's condition and incorporate proper treatment. Standard first aid, CPR, and AED certification(s) will be granted upon successful completion of requirements. 54 hours lecture. Transfer: CSU; C-ID# KIN 101.

Degree Applicable, Credit Grading Option: GR

KIN 15 FIRST AID & SAFETY 1.5 UNITS

This course has been designed to help you acquire the knowledge and skills you will need to effectively respond to emergency situations. Topics Include: recognition and treatment for cardiac and respiratory emergencies, first aid for bleeding, shock, burns, poisoning, stroke, and various injuries. American Red Cross Standard First Aid and Community CPR/AED certificates issued upon successful completion of Red Cross requirements. 27 hours lecture. Transfer: CSU, UC.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: GR

**KIN 16 THE SUCCESSFUL STUDENT
ATHLETE 1 UNIT**

This course is designed to assist the student-athlete in developing realistic expectations and goals of college, explore academic programs, and understand what is necessary to succeed in college while competing in an intercollegiate sport. This course will also discuss the probability of becoming a professional athlete and life after athletics. The rules and regulations of the California Community College Athletic Association (CCCCAA), National Intercollegiate Athletic Association (NCAA) Association of Intercollegiate Athletics (NAIA) will be defined and explored to bring awareness to the student-athlete regarding eligibility and transferring to a four-year institution. 18 hours lecture. Transfer: CSU, UC*. * *KIN 16 and PCN 30 combined: maximum UC credit, 3 units.*

Degree Applicable, Credit Grading Option: GR

**KIN 17 INTRO TO ATHLETIC
TRAINING AND SPORTS
MEDICINE 4 UNITS**

Basic taping skills, introduction to modality usage, and basic rehabilitation principles of athletic training. Designed to be preparatory for further education and a career in Athletic Training and or other Sports Medicine related fields. May include work with intercollegiate sports programs. Legal and ethical issues, professionalism, organization and administration of a sports medicine facility. This course is focused on preparing those interested in becoming Athletic Trainers and Coaches. 54 hours lecture, 54 hours laboratory. Transfer: CSU, UC*. * *KIN 17, 22A, and 27 combined: maximum UC credit, 8 units.*

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: GR

**KIN 18A ATHLETIC TRAINING
PRACTICUM 1 1 UNIT**

Designed to provide clinical experience for students interested in sports-related injury care and prevention. Organization of a clinical facility and management of game day operations. Experiences will include taping for prevention of injury, use of modalities for the treatment and/or rehabilitation of injuries, stretching techniques, identify and manage emergency situations. Prerequisite: KIN 17 with a minimum grade of C. 54 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: GR

**KIN 18B ATHLETIC TRAINING
PRACTICUM 2 1 UNIT**

This course will expose students to injury evaluation, methods of diagnosis and rehabilitation. The student will help make return to play decisions based on the knowledge they have learned in their coursework. The students will develop and administer conditioning programs to Las Positas College athletes with the guidance of the Certified Athletic Trainer. Prerequisite: KIN 18A with a minimum grade of C. 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

KIN 19 CARE AND PREVENTION OF ATHLETIC INJURIES 3 UNITS

This course provides an introduction to the principles and scientific foundations of athletic training. Examination in the techniques used in the prevention of athletic injuries, including taping, bandaging, and strapping along with how to recognize and evaluate basic signs and symptoms associated with common injuries. Establishing a plan of care that includes rehabilitative exercise will also be studied. Legal and ethical issues, professionalism, organization and administration of a sports medicine facility. This course is focused on preparing those interested in becoming Athletic Trainers and Coaches. Prerequisite: KIN 17 with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

KIN 22A SCIENCE OF SOCCER I 3 UNITS

An introduction to sociological, physiological, psychological, and performance aspects of soccer. This course will provide an analysis of the physiological demands of the game, as well as, the use of applied psychological techniques to enhance confidence and reduce anxiety. Socio-cultural influences on the development of the game and match performance will also be analyzed. 54 hours lecture. AA GE: VB. Transfer: CSU, UC*; CSU GE: E. *KIN 17, 22A, and 27 combined: maximum UC credit, 8 units.

Degree Applicable, Credit Grading Option: OP

KIN 24 SPORT PSYCHOLOGY 3 UNITS

A formal introduction to the study of sport psychology focusing upon both the psychological factors that influence participation in sport and exercise and the psychological effects derived from that participation. Emphasis on understanding the psychological processes involved in human performance, models of intervention that can enhance and improve learning and performance conditions, and the strategies which can elicit and influence favorable psychological perceptions and outcomes. 54 hours lecture. Transfer: CSU; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

KIN 26 COACHING YOUTH SOCCER 3 UNITS

This course is intended for those with an interest in coaching youth soccer. It will examine philosophies developed by US and European National Soccer Associations. The purpose is to explore best practices and age-appropriate activities, thereby enhancing the learning experience of the youth soccer participant. 54 hours lecture. Transfer: CSU; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

KIN 29A INDEPENDENT STUDY INTERCOLLEGIATE ATHLETICS 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

KIN 29K INDEPENDENT STUDY, KINESIOLOGY 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours

laboratory.

KIN 29P INDEPENDENT STUDY, PHYSICAL EDUCATION 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

KIN 30 INTRODUCTION TO KINESIOLOGY 3 UNITS

This class is designed to introduce the student to Kinesiology - the science of human movement (and of humans moving). Concepts in the various subfields of Kinesiology are examined and career opportunities in the field of Kinesiology are explored. Due to the interdisciplinary nature of Kinesiology, the field will be covered from a humanities, social science, and life science perspective. 54 hours lecture. AA GE: VB. Transfer: CSU, UC; CSU GE: E; C-ID# KIN 100.

Degree Applicable, Credit Grading Option: OP

Kinesiology Intercollegiate Athletics Courses (KIN)

KIN 32A FALL INTERCOLLEGIATE MEN'S BASKETBALL 3 UNITS

Basketball training for intercollegiate competition. Daily practice for advanced skill development will occur. Fall semester. 162 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. Number of times course may be taken for credit: 4. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: GR

KIN 32B SPRING INTERCOLLEGIATE MEN'S BASKETBALL 3 UNITS

Basketball training for intercollegiate competition. Daily practice for advanced skill learning will occur. Spring semester. 162 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. Number of times course may be taken for credit: 4. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: GR

KIN 38A PRE-SEASON INTERCOLLEGIATE MEN'S SOCCER 1-2 UNITS

Students will work on fundamental skills of soccer, such as, kicking, passing, trapping, heading and physical conditioning which are needed for controlled outdoor higher levels of soccer play, discuss and employ basic offensive and defensive strategies and tactics; use and apply the rules governing outdoor soccer play. 54-108 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. Number of times course may be taken for credit: 4. *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: GR

KIN 38B INTERCOLLEGIATE MEN'S SOCCER 3 UNITS

Training for soccer competition at the collegiate level. Practice will take place which will include training students to perform at the college competitive level for the Coast Conference Soccer League of Northern California. Prepares the individual for intercollegiate competition in the sport of soccer using such skills as passing, receiving and heading as well as offensive and defensive strategies. Students must meet California Community College eligibility requirements as established by the California Commission on Athletics. Strongly Recommended: KIN 38A with a minimum grade of C. 162 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. Number of times course may be taken for credit: 4. * *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: GR

KIN 38C POST SEASON INTERCOLLEGIATE MEN'S SOCCER 1-2 UNITS

Students will learn and develop fundamental to advanced outdoor soccer skills of kicking, passing and conditioning necessary for playing field soccer at an intercollegiate level. Students will learn the rules governing outdoor soccer play. 54-108 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. Number of times course may be taken for credit: 4. * *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: GR

KIN 40A PRE-SEASON INTERCOLLEGIATE WOMEN'S VOLLEYBALL 1 UNIT

Preseason preparation for intercollegiate competition in the sport of women's volleyball. 54 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*. Number of times course may be taken for credit: 4. * *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: GR

KIN 40B IN SEASON INTERCOLLEGIATE WOMEN'S VOLLEYBALL 1-3 UNITS

Intercollegiate competition in the sport of women's volleyball. Strongly Recommended: KIN 40A with a minimum grade of C and/or Ability to demonstrate the following skills: bump, set, spike, serve. 54-162 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*. Number of times course may be taken for credit: 4. * *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: GR

KIN 40C OFF SEASON INTERCOLLEGIATE WOMEN'S VOLLEYBALL 1-2 UNITS

Designed to provide a physical, mental, nutritional and instructional conditioning program for the student preparing for and/or interested in being evaluated for the intercollegiate sport of women's volleyball. Strongly Recommended: KIN 40B with a minimum grade of C. 54-108 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*. Number of times course may be taken for credit: 4. * *Any or all of*

these PE Activity courses combined: maximum UC credit, 4 units.

Degree Applicable, Credit Grading Option: GR

KIN 41A PRE-SEASON INTERCOLLEGIATE WOMEN'S BASKETBALL 1-2 UNITS

This course is designed to provide the student with an opportunity to develop the skills and physical conditioning, along with the understanding of basketball at the advanced level in preparation for intercollegiate competition. Skills such as dribbling, passing, shooting, defensive and offensive strategies will be presented and practiced. Team play and sportsmanship are important priorities that are emphasized in this class. Fall semester. 54-108 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. Number of times course may be taken for credit: 4. * *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: GR

KIN 41B FALL INTERCOLLEGIATE BASKETBALL - WOMEN 1.5 UNITS

Training for intercollegiate competition. Daily practice. Fall semester. 81 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. Number of times course may be taken for credit: 4. * *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: GR

KIN 41C SPRING INTERCOLLEGIATE BASKETBALL - WOMEN 1.5 UNITS

Training for intercollegiate competition. Daily practice. Spring Semester. 81 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. Number of times course may be taken for credit: 4. * *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: GR

KIN 41D OFF SEASON INTERCOLLEGIATE WOMEN'S BASKETBALL 1-2 UNITS

Students will practice the skills of dribbling, passing, shooting and defense necessary for competitive basketball play; put into practice the governing rules of basketball; learn about the appropriate terminology used in basketball and the safety procedures related to the game. 54-108 hours laboratory. AA/AS GE: VA. Transfer: CSU, UC*; CSU GE: E. Number of times course may be taken for credit: 4. * *Any or all of these PE Activity courses combined: maximum UC credit, 4 units.*

Degree Applicable, Credit Grading Option: GR

KIN 48A PRE-SEASON INTERCOLLEGIATE WOMEN'S SOCCER 1-2 UNITS

Students will be taught to execute technical skills of soccer in game situations. For example, the techniques of long/short passing, receiving, crossing, shooting, individual and zonal defending. They will compare and contrast various offensive and defensive strategies and systems of play, and identify strengths and weaknesses of various formations. 54-108 hours laboratory. AA/AS GE: VA. Transfer: CSU,

LESBIAN, GAY, BISEXUAL, TRANSGENDER, AND QUEER STUDIES

Lesbian, Gay, Bisexual, Transgender, and Queer (LGBTQ) Studies introduces students to the study of LGBTQ people, including activism, politics, history, and art that is the foundation of queer studies. The program supports students earning degrees in psychology, child development, education, criminal justice, human services, all health occupations, business and hospitality.

Programs of Study

Degree:

- AA-T – Social Justice Studies: LGBTQ Studies

AA-T – Social Justice Studies: LGBTQ Studies

About the Degree

The Associate in Arts in Social Justice Studies: LGBTQ Studies for Transfer is designed for prospective California State University (CSU) transfer students who are preparing for careers in the field of Social Justice Studies: LGBTQ Studies. Completion of the Social Justice Studies: LGBTQ Studies Transfer degree will provide a streamlined pathway for transfer to a CSU campus with a Social Justice Studies: LGBTQ Studies or similar major. Examples of CSU majors include American Studies, Gender Studies, Liberal Studies w/ Option in Interdisciplinary Studies in Culture & Society, Sociology - Concentration in Race, Class, and Gender, Sociology with Inequalities and Diversity Option, Women, Gender, and Sexuality Studies, and Women's Studies. Students should consult with a counselor to determine whether or not this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution; please see a counselor for details if you are pursuing transfer to the UC system.

Program Outcomes

- Upon completion of the AA-T in Social Justice Studies: LGBTQ Studies, students will be able to discuss the social, economic, political, intellectual and cultural contributions of LGBTQ+ people of the past and present.
- Upon completion of the AA-T in Social Justice Studies: LGBTQ Studies, students will be able to discuss how sexual identity and gender identity combine with nationality, race and ethnicity, religion, social class, and physical ability to shape the

experiences of LGBTQ+ individuals.

- Upon completion of the AA-T in Social Justice Studies: LGBTQ Studies, students will be able to synthesize the relationships between epistemological frameworks used in LGBTQ+ studies and those used in other areas (i.e. Queer Theory, Feminist Theory, and Critical Theory).
- Upon completion of the AA-T in Social Justice Studies: LGBTQ Studies, students will be able to compare and contrast the key methodologies utilized in LGBTQ+ studies

Required Core: (9 Units)

LBGT 1 (Introduction to LGBTQ Studies)	3
SOC 3 (Cultural and Racial Minorities)	3
SOC 11 (Sociology of Gender)	3
WMST 1 (Introduction to Women's Studies)	3
WMST 2 (Global Perspective of Women)	3

List A: Select Three Courses from at least Two of the Following Areas (9-10 Units)

Area 1: History or Government

HIST 32 (U.S. Women's History)	3
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Area 2: Arts and Humanities

ENG 32 (U.S. Women's Literature)	3
HUMN 4 (Global Cinemas)	4
PHIL 5 (Feminist Philosophy)	3
RELS 3 (Intro To Women's Spirituality)	3
RELS 11 (The Nature of Islam)	3

Area 3: Social Science

ANTR 5 (Cultures of the U.S. in Global Perspective)	3
GS 1 (Introduction to Global Studies)	3
GS 2 (Global Issues)	3
HEA 11 (Health and Social Justice)	3
PSYC 3 (Introduction to Social Psychology)	3
PSYC 13 (Psychology of Women)	3

Area 4: Quantitative Reasoning (only one course may be used)

MATH 40 (Statistic and Probability) or	
PSYC 25 (Research Methods) or	
SOC 13 (Research Methods)	4

Total Units for the Major 18-20

Additional General Education and Elective Units 40-42

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Lesbian, Gay, Bisexual, Transgender and Queer Studies Courses (LGBT)

LGBT 1 INTRODUCTION TO LGBTQ STUDIES 3 UNITS

A broad exploration of queer theory and its relationship to gay and lesbian studies, feminist theory, and intersectionality. Emphasis on theoretical and philosophical underpinnings of queer theory, social construction and essentialism, postmodernist theory, politics, LGBT studies and queer culture. Examines LGBTQ issues from psychological, bio-medical, sociological, political, racial and sexual perspectives. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; C-ID# SJS 130.

Degree Applicable, Credit Grading Option: OP

LGBT 2 LESBIAN, GAY, BISEXUAL, TRANSGENDER, AND QUEER STUDIES 3 UNITS

Exploration of research concerning the psychology of people that are part of the lesbian, gay, bisexual, transgender, and queer communities. The course will examine psychological theories, empirical research, and phenomenological perspectives. Topics will include sexual and gender identifies in racial and ethnic minorities, identity development, coming out, prejudice, discrimination, violence, relationships, parenting, aging, physical health, and mental health. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

LIBERAL ARTS AND SCIENCES

The Associate in Arts in Liberal Arts & Sciences is designed for students who wish to have a broad knowledge of liberal arts and sciences plus additional coursework in one of the following areas of emphasis: Business, Computer Science, Art and Humanities, Language Arts and Communication, Mathematics and Science, and Social and Behavioral Sciences. The curriculum in liberal arts allows students to develop an appreciation of the beauty and values that have shaped and enriched our culture.

The graduate of the AA program in liberal arts will:

- Complete Las Positas College AA degree General Education, Graduation and Proficiency Requirements
- Complete a total of 60 associate degree applicable units
- Complete 18 units in one "Area of Emphasis" from those listed below

Programs of Study

Degrees:

- AA – Liberal Arts & Sciences: Arts and Humanities
- AA – Liberal Arts & Sciences: Business
- AA – Liberal Arts & Sciences: Computer Science
- AA – Liberal Arts & Sciences: Language Arts and Communication
- AA – Liberal Arts & Sciences: Mathematics and Science
- AA – Liberal Arts & Sciences: Social and Behavioral Science

AA – Liberal Arts & Sciences: Arts and Humanities

About the Degree

The Liberal Arts & Sciences: Arts and Humanities AA courses emphasize the study of cultural, literary, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments.

Program Outcomes

- Upon completion of the AA in Liberal Arts & Sciences: Arts and Humanities, students are able to apply art theory to specific works of art.
- Upon completion of the AA in Liberal Arts & Sciences: Arts and Humanities, students are able to critically analyze important

texts and ideas within the global intellectual tradition.

Required Core: Complete at least 18 Units from Below with at least 6 Units from Arts and 6 Units from Humanities (18-21 Units)

Arts

ARHS 1 (Introduction to Art History)3
 ARHS 2 (Art of the Ancient Americas)3
 ARHS 3 (Arts of Africa, Oceania, and Indigenous North Americas) 3
 ARHS 4 (Western Art History - Ancient to Medieval)3
 ARHS 5 (Western Art History - Renaissance to Contemporary)3
 ARHS 7 (Modern Art History)3
 ARHS 8 (Asian Art History)3
 ARTS 2A (Introduction to Drawing)3
 ARTS 2B (Drawing and Composition)3
 ARTS 3A (Figure and Composition I)3
 ARTS 3B (Figure and Composition II)3
 ARTS 3C (Figure and Composition III)3
 ARTS 3D (Figure and Composition IV)3
 ARTS 4A (Introduction to Ceramics)3
 ARTS 4B (Intermediate Ceramics)3
 ARTS 7A (Introduction to Watercolor Painting)3
 ARTS 7B (Watercolor Painting)3
 ARTS 7C (Advanced Watercolor Painting I)3
 ARTS 7D (Advanced Watercolor Painting II)3
 ARTS 12A (Oil/Acrylic Painting: Beginning I)3
 ARTS 12B (Oil/Acrylic Painting: Beginning II)3
 ARTS 12C (Oil/Acrylic Painting: Advanced I)3
 ARTS 12D (Oil/Acrylic Painting: Advanced II)3
 ARTS 23 (2-D Design)3
 ARTS 24 (3-D Design)3
 ARTS 26 (Color Theory)3
 GDDM 2 (Wordpress and Content Management Systems)3
 GDDM 3 (The History of Modern Design)3
 GDDM 4 (User Interface and User Experience Design)3
 GDDM 40 (Design Shop: The Business of Design)3
 GDDM 45A (Digital Painting I)3
 GDDM 45B (Digital Painting II)3
 GDDM 50 (Graphic Design/Digital Media Fundamentals)3
 GDDM 51 (Color Theory)3
 GDDM 52 (Introduction to Typography)3
 GDDM 53 (Photoshop I)3
 GDDM 54 (Illustrator I)3
 GDDM 55 (Web Design I)3
 GDDM 56 (Introduction to Graphic Design)3
 GDDM 57 (Branding and Identity Design)3
 GDDM 58 (Photoshop II)3
 GDDM 59 (Illustrator II)3
 GDDM 60 (Creative Portfolio Development & Self Promotion)3
 GDDM 62 (Web Design II)3
 GDDM 63 (Website/Multimedia Production)3
 GDDM 64 (InDesign I)3
 GDDM 65 (Elect Prepress/Print Prod)3
 GDDM 67 (InDesign II)3
 GDDM 68 (Creative Portfolio Preparation)3
 GDDM 70 (Photoshop and Lightroom for Photographers)3
 JAMS 12 (Introduction to Photojournalism)3
 MUS 1 (Introduction to Music)3

MUS 3 (World Music)3
 MUS 4 (Jazz in American Culture)3
 MUS 5 (American Cultures in Music)3
 MUS 6 (Basic Music Skills)2
 MUS 8A (Music Theory and Musicianship 1)4
 MUS 8B (Music Theory and Musicianship 2)4
 MUS 10A (Music Theory and Musicianship 3)4
 MUS 10B (Music Theory and Musicianship 4)4
 MUS 11 (Commercial Music Combo)1
 MUS 12 (Wind Ensemble)1
 MUS 13 (History of Rock & Roll)3
 MUS 14 (Jazz Workshop)1
 MUS 15 (Jazz Ensemble)1
 MUS 16 (Philharmonic Orchestra)1
 MUS 20A (Elementary Guitar)1
 MUS 20B (Study of Guitar)1
 MUS 20C (Advanced Guitar)1
 MUS 21A (Beginning Piano)1
 MUS 21B (Beginning Piano: Intermediate)1
 MUS 22A (Scoring for Film and Multimedia 1)3
 MUS 22B (Scoring for Film and Multimedia 2)3
 MUS 23A (Elementary Voice I)1
 MUS 23B (Elementary Voice II)1
 MUS 25 (Teaching Beginning Piano)2
 MUS 26 (Methods/Materials/Piano Teachers)2
 MUS 27 (Teaching Intermediate Piano)2
 MUS 28 (Keyboard Skills)1
 MUS 31 (Study of Piano)1
 MUS 34 (Music in Film)3
 MUS 35 (Intro to Music Technology)3
 MUS 36 (Intermediate Music Technology)3
 MUS 37 (Music Industry Career Development)3
 MUS 38 (Applied Lessons)1
 MUS 41 (Instrumental Chamber Music)1
 MUS 44 (Concert Choir)1
 MUS 45 (Chamber Choir)2
 MUS 46 (Vocal Jazz Ensemble)2
 MUS 47 (College Productions-Music)1
 MUS 48 (Improvisation Lab)1
 PHTO 50 (Introduction to Photography)3
 PHTO 51A (Individual Projects A)1.5
 PHTO 56 (Introduction to Digital Photography)1.5
 PHTO 57 (Intermediate Digital Photography)1.5
 PHTO 58 (Introduction to Videography)3
 PHTO 60 (Intermediate Black and White Photography)3
 PHTO 64A (Artificial Light Photography)3
 PHTO 66 (Digital Imaging)3
 PHTO 67 (History of Photography)3
 PHTO 68 (Color Field Photography)3
 PHTO 69 (Intermediate Videography)3
 PHTO 70 (Photoshop and Lightroom for Photographers)3
 PHTO 72 (Introduction to Photojournalism)3
 THEA 1 (Conservatory Readiness)1
 THEA 1A (Theory/Practice of Acting I)3
 THEA 1B (Theory/Practice of Acting II)3
 THEA 3A (Beginning Improvisation)3
 THEA 3B (Intermediate Improvisation)3
 THEA 3C (Improvisation in Performance)3
 THEA 4 (Modern American Theater)3
 THEA 5 (Theater for Young Audiences)3

THEA 10 (Introduction to Dramatic Arts).....	3	HUMN 10 (American Arts and Ideas).....	3
THEA 11 (Stage to Screen)	3	HUMN 11 (Culture and the Arts I: Ancient World to the Renaissance)	3
THEA 12 (Film As Art & Communication).....	4	HUMN 12 (Culture and the Arts II: The Modern World).....	3
THEA 14 (Bay Area Theater)	3	HUMN 28 (World Mythology)	3
THEA 25 (Fundamentals of Stage Speech).....	3	LIBR 1 (Working with Sources)	1
THEA 31A (Drama Workshop - Beginning)	3	LIBR 4 (College Research Techniques)	0.5
THEA 31B (Drama Workshop - Intermediate).....	3	LIBR 6 (Research in Special Subjects).....	0.5
THEA 31C (Drama Workshop - Technical Theater).....	3	LIBR 7 (The Open Web and Search Engines)	0.5
THEA 31D (Drama Workshop - Directing).....	3	PHIL 1 (God, Nature, Human Nature)	3
THEA 39A (Musical Theater Workshop - Beginning)	4	PHIL 1H (Honors Philosophy 1: God, Nature, Human Nature).....	3
THEA 39B (Musical Theater Workshop - Intermediate).....	4	PHIL 2 (Ethics)	3
THEA 39C (Musical Theater Workshop - Advanced).....	4	PHIL 2H (Honors Philosophy 2: Ethics).....	3
THEA 47A (Performance in Production: Introduction to Live Performance).....	3	PHIL 3 (Aesthetics)	3
THEA 47B (Performance in Production: Beginning).....	3	PHIL 4 (Intro to Philosophy: Knowledge)	3
THEA 47C (Performance in Production: Intermediate)	3	PHIL 5 (Feminist Philosophy).....	3
THEA 47D (Performance in Production: Advanced)	3	PHIL 6 (Introduction to Logic).....	3
THEA 48A (Technical Theater in Production - Beginning)	3	PHIL 8 (Logic and Argumentation)	4
THEA 48B (Technical Theater in Production - Intermediate).....	3	RELS 1 (Religions of the World).....	3
THEA 48C (Technical Theater in Production - Advanced)	3	RELS 2 (Bible: History and Literature)	3
THEA 48D (Technical Theater in Production - Capstone).....	3	RELS 3 (Intro To Women's Spirituality)	3
THEA 50 (Stagecraft)	3	RELS 11 (The Nature of Islam)	3
THEA 50L (Introduction to Stage Lighting).....	3	SPAN 1A (Beginning Spanish).....	5
THEA 51 (Introduction to Costume Design)	3	SPAN 1B (Elementary Spanish)	5
THEA 52 (Introduction to Design)	3	SPAN 2A (Intermediate Spanish I)	4
THEA 53 (Script Analysis).....	3	SPAN 2B (Intermediate Spanish II)	4
THEA 54 (Shakespeare Through Performance)	3	SPAN 21 (Spanish for Spanish Speakers I)	5
THEA 55 (Movement for the Actor)	1	SPAN 22 (Spanish for Spanish Speakers II)	5
THEA 56 (Acting for the Camera I).....	3	SPAN 23 (Introduction to Hispanic Literature)	3
THEA 57A (Performance in Production - Intro to Musical Theater) 3			
THEA 57B (Performance in Production - Beginning Musical Theater)	3	Total Units in the Area of Emphasis	18-21
THEA 57C (Performance in Production -Intermediate Musical Theater)	3	In addition to the Required Courses in the Area of Emphasis,	
THEA 57D (Performance in Production - Advanced Musical Theater)	3	students must complete a General Education pattern in order to earn	
THEA 58 (Stage Combat).....	2	a degree: see the Las Positas College General Education Pattern for	
THEA 59 (Acting for the Camera II/Voice Over).....	3	Associate of Arts (AA) Degree, California State University General	
THEA 60 (Business of Acting).....	1	Education-Breadth, or the Intersegmental General Education	
WLDT 71 (Welding for the Arts)	3	Transfer Curriculum (for CSU) patterns for listing of areas and	
		courses. Double counting courses in GE and the major is permissible.	
		The number of units that may be double counted will depend on the	
		entry point to the degree program, the optional course(s) taken, and	
		the GE pattern selected. Consult with an adviser or a counselor to	
		plan the courses necessary to achieve your academic goal.	
Humanities			
FREN 1A (Beginning French).....	5		
FREN 1B (Elementary French)	5		
FREN 2A (Intermediate French I)	4		
FREN 2B (Intermediate French II)	4		
HIST 1 (Western Civilization to 1600).....	3		
HIST 2 (Western Civilization Since 1600).....	3		
HIST 3 (World History to 1500)	3		
HIST 4 (World History since 1500).....	3		
HIST 7 (US History Through Reconstruction).....	3		
HIST 8 (US History Post-Reconstruction).....	3		
HIST 14 (History and American Cultures of California)	3		
HIST 25 (American Indian History).....	3		
HIST 28 (History of American West)	3		
HIST 32 (U.S. Women's History)	3		
HUMN 2 (Introduction to Film Studies)	3		
HUMN 3 (Introduction to Humanities).....	3		
HUMN 4 (Global Cinemas)	4		
HUMN 6 (Nature and Culture)	3		

AA – Liberal Arts & Sciences: Business

About the Degree

The Liberal Arts and Sciences: Business AA courses emphasize the integration of theory and practice within the field of business. Students will develop the ability to effectively manage and lead organizations. Students will demonstrate an understanding of the place of business within the global economy. Students will critically apply ethical standards to business practices and decisions.

Program Outcomes

- Upon completion of the AA in Liberal Arts & Sciences: Business, students are able to identify and describe types of business organizations and operations, as well as the effects of legal environments, when making a selection.

- Upon completion of the AA in Liberal Arts & Sciences: Business, students are able to describe the significance of marketing functions including Price, Product, Place and Promotion in a product life cycle.
- Upon completion of the AA in Liberal Arts & Sciences: Business, students are able to compare, contrast, and apply ethical standards and use best practices regarding the social responsibility of a business.

Required Core: Select at least 18 Units from Below with at least 3 Units from Two Disciplines (18-20 Units)

BUSN 1A (Financial Accounting).....	4
BUSN 1B (Managerial Accounting).....	4
BUSN 18 (Business Law).....	4
BUSN 20 (International Business)	3
BUSN 30 (Business Ethics and Society).....	3
BUSN 33 (Personal Financial Management and Planning)	3
BUSN 40 (Introduction to Business).....	3
BUSN 45 (Entrepreneurship)	3
BUSN 48 (Human Relations in Organizations).....	3
BUSN 51 (Accounting for Small Businesses).....	3
BUSN 52 (Business Communications).....	3
BUSN 53 (Business Correspondence).....	3
BUSN 56 (Introduction to Management)	3
BUSN 58 (Small Business Management)	3
BUSN 61 (Quickbooks Accounting).....	2
BUSN 65 (Federal Income Tax Accounting).....	3
BUSN 86 (Management Strategies & Dilemmas).....	3
BUSN 87 (Organizational Management and Leadership).....	3
BUSN 88 (Human Resources Management).....	3
ECON 1 (Principles of Microeconomics).....	3
ECON 2 (Principles of Macroeconomics)	3
ECON 5 (Economic History of the United States)	3
ECON 10 (General Economics).....	3
MKTG 50 (Introduction to Marketing)	3
MKTG 56 (Marketing Strategies)	3
MKTG 60 (Retail Store Management)	3
MKTG 61 (Professional Selling).....	3
MKTG 64 (Introduction to Advertising).....	3

Total Units in the Area of Emphasis 18-20

In addition to the Required Courses in the Area of Emphasis, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

**AA – Liberal Arts & Sciences:
Computer Studies**

About the Degree

The Liberal Arts & Sciences: Computer Studies AA courses emphasize the integration of theory and practice within the field of computer applications, computer networking, and computer science. Students will develop the ability to effectively use computer applications, manage and maintain networks, and develop software applications. Students will demonstrate an understanding of the place of technology within the global economy. Students will critically evaluate the impact of technology on the workplace, on their lives, and on society as a whole.

Program Outcomes

- Upon completion of the AA in Liberal Arts & Sciences: Computer Studies, students are able to demonstrate a strong foundation of knowledge in computer hardware, software, networking, and programming.

Required Core: Select at least 18 Units from Below with at least 3 Units from Each Discipline (18-20 Units)

CIS 8 (Essential Computing Skills)	2
CIS 10 (Business Data Analytics)	3
CIS 11 (Data Visualization Tools).....	3
CIS 43 (Professional Communications)	3
CIS 44 (IT Fundamentals +)	2
CIS 50 (Introduction to Computing Information Technology)	3
CIS 54 (Excel: Intro to Spreadsheets)	4
CIS 55 (Integrating Office Applications)	4
CIS 55B (Advanced MS Office Skills)	2
CIS 57 (Database Concepts).....	3
CIS 59 (Web Dev: HTML/CSS/Javascript)	3
CIS 59C (Web Programming - JavaScript).....	3
CIS 60 (Systems Analysis and Design)	3
CIS 62 (Project Management)	3
CIS 65 (Introduction to Desktop Operating Systems).....	2
CIS 66 (Networking Fundamentals)	3
CIS 88A (Introduction to Microsoft Word)	1.5
CIS 88B (Adv Microsoft Word).....	1.5
CIS 89A (Desktop Presentation).....	1
CIS 89B (Desktop Publishing).....	1
CIS 9001 (Database Design Methodology).....	3
CIS 9002 (ORACLE: Database Design and SQL Programming).....	3
CIS 9003 (ORACLE: Database Programming with PL/SQL)	3
CNT 43 (Professional Communications).....	3
CNT 51 (CompTIA's A+ Certification Computer Technician)	4
CNT 52 (Networking Fundamentals).....	3
CNT 54 (Administering Windows Client)	4
CNT 55 (MCSA I Windows Server Installation, Storage, and Compute)	3
CNT 56 (MCSA II Networking with Windows Server)	3
CNT 57 (MCSA III Identity with Windows Server).....	3
CNT 68 (Digital Forensics Fundamentals)	3
CNT 69 (Network Security; CompTIA Security+ Certification).....	3
CNT 7285 (Cloud Infrastructure: CompTIA Cloud+ Certification)	3
CNT 7401 (Red Hat Linux Administration I)	3
CNT 7501 (Red Hat Linux Administration II)	3
CNT 7501 (Ethical Hacking)	3
CNT 7701 (IT Virtualization, Data Centers,	

VMware Certification)	3
CNT 8001 (Cisco CCNA1/3 Introduction to Networks (ITN))	3
CNT 8002 (Cisco CCNA2/3 Switching, Routing, and Wireless Essentials (SRWE))	3
CNT 8003 (Cisco CCNA3/3 Enterprise Networking, Security, and Automation v7.0 (ENSA))	3
CS 1 (Computing Fundamentals I)	4
CS 2 (Computing Fundamentals II)	4
CS 3 (Red Hat Linux Administration II)	3
CS 4 (Introduction to Artificial Intelligence)	3
CS 7 (Introduction to Computer Programming Concepts)	3
CS 20 (Advanced Programming with Data Structures/C++)	4
CS 21 (Computer Organization and Assembly Language Programming)	4
CS 31 (Java Programming)	4
CS 41 (Red Hat Linux Administration I)	3
CS 43 (Professional Communications)	3
CS 45 (Database Programming)	4
CS 47 (Capstone Project)	3

Total Units in the Area of Emphasis 18-20

In addition to the Required Courses in the Area of Emphasis, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

**AA – Liberal Arts & Sciences:
Language Arts and Communication**

About the Degree

The Liberal Arts and Sciences: Language Arts and Communication AA courses emphasize the content of communication, as well as the form and should provide an understanding of the psychological basis and social significance of communication. Students will be able to assess communication as the process of human symbolic interaction. Students will also develop skills in the areas of reasoning and advocacy, organization, reading and listening effectively. Students will be able to integrate important concepts of critical thinking as related to the development of analytical and critical evaluation, being able to reason inductively and deductively, enabling them to make important decisions regarding their own lives and society at large.

Program Outcomes

- Upon completion of the AA in Liberal Arts & Sciences: Language Arts and Communication, students are able to apply critical thinking principles to the evaluation of human symbolic interaction.
- Upon completion of the AA in Liberal Arts & Sciences: Language Arts and Communication, students are able to choose and apply appropriate communication strategies based on

consideration of audience and purpose.

- Upon completion of the AA in Liberal Arts & Sciences: Language Arts and Communication, students are able to recognize and appreciate the value of a multicultural world and of diversity in its many forms.

**Required Core: Select at least 18 Units from
Below with at least 3 Units from
2 Disciplines (18-22 units)**

ASL 1A (American Sign Language I)	3
ASL 1B (American Sign Language II)	3
ASL 2A (American Sign Language III)	3
ASL 2B (American Sign Language IV)	3
CMST 1 (Fundamentals of Public Speaking)	3
CMST 2 (Oral Interpretation of Literature)	3
CMST 3 (Group Communication)	3
CMST 4 (Introduction to Communication Studies)	3
CMST 5 (Readers Theater)	3
CMST 10 (Interpersonal Communication)	3
CMST 11 (Intercultural Communication)	3
CMST 46 (Argumentation and Debate)	3
CMST 48 (Activities in Forensics)	1 - 4
ENG 1A (Critical Reading and Composition)	3
ENG 1AEX (Critical Reading and Composition Expanded)	4
ENG 4 (Critical Thinking and Writing about Literature)	3
ENG 7 (Critical Thinking and Writing Across Disciplines)	3
ENG 11 (Introduction to Creative Writing)	3
ENG 12A (Craft of Writing Fiction)	3
ENG 12B (Craft of Writing Fiction: Intermediate)	3
ENG 12C (Craft of Writing Fiction: Advanced)	3
ENG 13A (The Craft of Writing Poetry: Beginning)	3
ENG 13B (The Craft of Writing Poetry: Intermediate)	3
ENG 19A (Journal of Arts, Literature, and Academic Writing A)	3
ENG 19B (Journal of Arts, Literature, and Academic Writing B)	3
ENG 20 (Studies in Shakespeare)	3
ENG 32 (U.S. Women's Literature)	3
ENG 35 (Modern American Literature)	3
ENG 41 (Modern World Literature)	3
ENG 42 (Literature of the African Diaspora in America)	3
ENG 44 (Literature of the American West)	3
ENG 45 (Studies in Fiction)	3
ESL 1A (Critical Reading and Composition for ESL)	6
ESL 23 (Advanced Grammar)	3
ESL 24 (Advanced Reading and Composition I)	6
ESL 25 (Advanced Reading and Composition II)	6
ESL 26 (Advanced Editing)	3
FREN 1A (Beginning French)	5
FREN 1B (Elementary French)	5
FREN 2A (Intermediate French I)	4
FREN 2B (Intermediate French II)	4
JAMS 2 (Introduction to Media)	3
JAMS 3 (Introduction to Public Relations)	3
JAMS 11 (Introduction to Reporting and Newswriting)	3
JAMS 12 (Introduction to Photojournalism)	3
JAMS 19A (Journal of Arts, Literature, and Academic Writing A)	3
JAMS 19B (Journal of Arts, Literature, and Academic Writing B)	3
JAMS 21A (Express College Newspaper A)	3
JAMS 21B (Express College Newspaper B)	3
JAMS 21C (Express College Newspaper C)	3

JAMS 21D (Express College Newspaper D).....	3
JAMS 22 (Express Editorial Board).....	1
JAMS 24A (Naked Magazine: College Magazine A).....	3
JAMS 24B (Naked Magazine: College Magazine B).....	3
PHTO 72 (Introduction to Photojournalism).....	3
SPAN 1A (Beginning Spanish).....	5
SPAN 1B (Elementary Spanish).....	5
SPAN 2A (Intermediate Spanish I).....	4
SPAN 2B (Intermediate Spanish II).....	4
SPAN 21 (Spanish for Spanish Speakers I).....	5
SPAN 22 (Spanish for Spanish Speakers II).....	5
SPAN 23 (Introduction to Hispanic Literature).....	3

Total Units in the Area of Emphasis 18-22

In addition to the Required Courses in the Area of Emphasis, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

**AA – Liberal Arts & Sciences:
Mathematics and Science**

About the Degree

The Liberal Arts & Sciences: Mathematics and Science AA courses emphasize the natural sciences, which examine the physical universe, its life forms and its natural phenomena. Courses in math emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will also examine the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

Program Outcomes

- Upon completion of the AA in Liberal Arts & Sciences: Mathematics and Science, students are able to apply mathematical and scientific ideas to analyze real-world situations.
- Upon completion of the AA in Liberal Arts & Sciences: Mathematics and Science, students are able to read, write, listen to, and speak about mathematical and scientific ideas with understanding.
- Upon completion of the AA in Liberal Arts & Sciences: Mathematics and Science, students are able to use appropriate technology and/or tools to enhance their scientific thinking and understanding.
- Upon completion of the AA in Liberal Arts & Sciences: Mathematics and Science, students are able to use scientific reasoning to solve problems or conduct research, and assess the

reasonableness of their results.

Required Core: Select at least 18 Units from Below with at least 6 Units from Science and 3 Units from Mathematics (18-21 units)

Mathematics

CS 17 (Discrete Mathematical Structures).....	4
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II).....	5
MATH 3 (Multivariable Calculus).....	5
MATH 5 (Ordinary Differential Equations).....	3.5
MATH 7 (Elementary Linear Algebra).....	3.5
MATH 10 (Discrete Mathematical Structures).....	4
MATH 27 (Number Systems for Educators).....	3
MATH 30 (College Algebra for STEM).....	4
MATH 33 (Finite Mathematics).....	4
MATH 34 (Calculus for Business and Social Sciences).....	5
MATH 39 (Trigonometry).....	4
MATH 40 (Statistics and Probability).....	4
MATH 47 (Mathematics for Liberal Arts).....	3

Science

ANTR 1 (Biological Anthropology).....	3
ANTR 1L (Biological Anthropology Lab).....	1
ANTR 2L (Archaeology Field Lab).....	1
ANTR 13 (Introduction to Forensic Anthropology).....	3
ASTR 10 (Introduction to Astronomy: The Solar System).....	3
ASTR 20 (Introduction to Astronomy: Stars and the Universe).....	3
ASTR 30L (Introduction to Astronomy Lab).....	1
BIO 1A (General Botany).....	5
BIO 1B (General Zoology).....	5
BIO 1C (Cell and Molecular Biology).....	5
BIO 7A (Human Anatomy).....	5
BIO 7B (Human Physiology).....	5
BIO 7C (Microbiology).....	5
BIO 10 (Introduction to the Science of Biology).....	4
BIO 20 (Contemporary Human Biology).....	3
BIO 30 (Introduction to College Biology).....	4
BIO 40 (Humans and the Environment).....	3
BIO 50 (Anatomy and Physiology).....	4
BIO 60 (Marine Biology).....	4
BIO 70 (Field Biology).....	3
CHEM 1A (General College Chemistry I).....	5
CHEM 1B (General College Chemistry II).....	5
CHEM 12A (Organic Chemistry I).....	5
CHEM 12B (Organic Chemistry II).....	5
CHEM 30A (Introductory and Applied Chemistry I).....	4
CHEM 30B (Introductory and Applied Chemistry II).....	4
CHEM 31 (Introduction to College Chemistry).....	4
EVST 5 (Energy and Sustainability).....	3
GEOG 1 (Introduction to Physical Geography).....	3
GEOG 1L (Introduction to Physical Geography Laboratory).....	1
GEOG 8 (Introduction to Atmospheric Science).....	3
GEOG 12 (Geography of California).....	3
GEOL 1 (Physical Geology).....	3
GEOL 1L (Physical Geology Laboratory).....	1
GEOL 2 (Historical Geology with Lab).....	4
GEOL 5 (Environmental Geology: Hazards & Disasters).....	3

GEOL 7 (Environmental Geology: Resources, Use Impact & Pollution).....	3
GEOL 12 (Introduction to Oceanography).....	3
GEOL 12L (Intro to Oceanography Lab).....	1
PHYS 1A (General Physics I).....	5
PHYS 1B (General Physics II).....	5
PHYS 1C (General Physics III).....	5
PHYS 1D (General Physics IV).....	3
PHYS 2A (Introduction to Physics I).....	4
PHYS 2B (Introduction to Physics II).....	4
PHYS 10 (Descriptive Physics).....	3
PHYS 10L (Descriptive Physics Lab).....	1
PSYC 4 (Brain, Mind, and Behavior).....	3

Total Units in the Area of Emphasis 18-21

In addition to the Required Courses in the Area of Emphasis, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AA – Liberal Arts & Sciences: Social and Behavioral Sciences

About the Degree

The Liberal Arts & Sciences: Social and Behavioral Sciences AA courses emphasize the perspective, concepts, theories and methodologies of the disciplines typically found in the vast variety of disciplines that comprise study in the Social and Behavioral Sciences. Students will study about themselves and others as members of a larger society. Topics and discussion to stimulate critical thinking about ways people have acted in response to their societies will allow students to evaluate how societies and social subgroups operate.

Program Outcomes

- Upon completion of the AA in Liberal Arts & Sciences: Social and Behavioral Sciences, students are able to apply basic social scientific methods to investigate the relationships among individuals, cultures, and societies.
- Upon completion of the AA in Liberal Arts & Sciences: Social and Behavioral Sciences, students are able to describe the major concepts, theoretical perspectives, empirical findings, and historical trends in the social science disciplines.
- Upon completion of the AA in Liberal Arts & Sciences: Social and Behavioral Sciences, students are able to identify the major ideas, values, beliefs, and experiences that have shaped human history and cultures.

Required Core: Select at least 18 Units from Below with at least 3 Units from

3 Disciplines (18-20 Units)

AJ 50 (Introduction to Administration of Justice).....	3
AJ 54 (Investigative Reporting).....	3
AJ 55 (Introduction to Correctional Science).....	3
AJ 56 (Fundamentals of Crime and Delinquency).....	3
AJ 59 (Child Abuse in the Community).....	3
AJ 60 (Criminal Law).....	3
AJ 61 (Evidence).....	3
AJ 63 (Criminal Investigation).....	3
AJ 64 (Patrol Procedures).....	3
AJ 66 (Juvenile Procedures).....	3
AJ 68 (Police Ethics and Leadership).....	3
AJ 69 (Sex Crime Investigation).....	3
AJ 70 (Community Relations).....	3
AJ 74 (Gangs and Drugs).....	3
AJ 89 (Family Violence).....	3
ANTR 1 (Biological Anthropology).....	3
ANTR 2 (Introduction to Archaeology).....	3
ANTR 3 (Cultural Anthropology).....	3
ANTR 4 (Language and Culture).....	3
ANTR 5 (Cultures of the U.S. in Global Perspective).....	3
ANTR 6 (Anthropology of Sex and Gender).....	3
ANTR 7 (Native American Cultures of North America).....	3
ANTR 8 (World Prehistory In Archaeological Perspective).....	3
ANTR 12 (Magic/Religion/Witchcraft/Healing).....	3
ANTR 13 (Introduction to Forensic Anthropology).....	3
ECE 10 (Introduction to Education).....	4
ECE 40 (Social and Emotional Foundations for Early Learning).....	3
ECE 54 (Child Health, Safety and Nutrition).....	3
ECE 56 (Child Growth and Development).....	3
ECE 60 (Introduction to the Young Child With Exceptional Needs).....	3
ECE 61 (Literature for the Young Child).....	3
ECE 62 (Child, Family and Community).....	3
ECE 74 (Child Guidance).....	2
ECE 79 (Teaching in a Diverse Society).....	3
ECON 1 (Principles of Microeconomics).....	3
ECON 2 (Principles of Macroeconomics).....	3
ECON 5 (Economic History of the United States).....	3
ECON 10 (General Economics).....	3
ENG 44 (Literature of the American West).....	3
ETHS 5 (Introduction to Cross-Cultural Psychology).....	3
ETHS 6 (Introduction to Race and Ethnicity).....	3
GEOG 2 (Cultural Geography).....	3
GEOG 5 (World Regional Geography).....	3
GEOG 12 (Geography of California).....	3
GS 1 (Introduction to Global Studies).....	3
GS 2 (Global Issues).....	3
HIST 1 (Western Civilization to 1600).....	3
HIST 2 (Western Civilization Since 1600).....	3
HIST 3 (World History to 1500).....	3
HIST 4 (World History since 1500).....	3
HIST 7 (US History Through Reconstruction).....	3
HIST 8 (US History Post-Reconstruction).....	3
HIST 14 (History and American Cultures of California).....	3
HIST 25 (American Indian History).....	3
HIST 28 (History of American West).....	3
HIST 32 (U.S. Women's History).....	3
HEA 1 (Introduction to Personal Health).....	3

HEA 3 (Women's Health)	3
HEA 7 (Introduction to Public Health)	3
HEA 11 (Health and Social Justice)	3
JAMS 1 (Introduction to Mass Communications)	3
JAMS 2 (Introduction to Media).....	3
LGBT 1 (Introduction to LGBTQ Studies)	3
LGBT 2 (Lesbian, Gay, Bisexual, Transgender, and Queer Psychology)	3
POLI 7 (Introduction to American Government)	4
POLI 12 (Introduction to California State and Local Government)	3
POLI 20 (Comparative Government).....	3
POLI 25 (Introduction to Political Theory).....	3
POLI 26 (Introduction to Gender, Sexuality, and Politics)	3
POLI 30 (International Relations).....	3
PCN 3 (Theories And Concepts Of Counseling: An Introduction)	3
PCN 5 (Introduction to Social Work and Human Services)	3
PCN 13 (Multicultural Issues in Contemporary America).....	3
PSYC 1 (General Psychology).....	3
PSYC 3 (Introduction to Social Psychology)	3
PSYC 4 (Brain, Mind, and Behavior)	3
PSYC 6 (Abnormal Psychology)	3
PSYC 10 (Psychology of Human Sexuality)	3
PSYC 12 (Life-Span Psychology).....	3
PSYC 13 (Psychology of Women).....	3
PSYC 15 (Abnormal Child Psychology)	3
PSYC 17 (The Psychology of Sleep and Dreams).....	3
PSYC 21 (Introduction to Cross-Cultural Psychology)	3
PSYC 25 (Research Methods).....	4
PSYC 27 (Introduction to Cognitive Science)	3
SOC 1 (Principles of Sociology)	3
SOC 3 (Introduction to Race and Ethnicity)	3
SOC 4 (Marriage and Family Relations)	3
SOC 5 (Introduction to Global Studies)	3
SOC 6 (Social Problems)	3
SOC 7 (Sociology of Sexuality)	3
SOC 11 (Sociology of Gender)	3
SOC 12 (Popular Culture)	3
SOC 13 (Research Methods).....	4
WMST 1 (Introduction to Women's Studies)	3
WMST 2 (Global Perspective of Women)	3

Total Units in the Area of Emphasis 18-20

In addition to the Required Courses in the Area of Emphasis, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

LIBRARY STUDIES

Library Studies are for students doing research projects, transferring to a four-year college, or wanting to locate sources of information in a more efficient manner. These classes teach the research process, including location, evaluation, and citation of sources from the library catalog, the library databases, and the web. Students transferring to a four-year college will be expected to have these research skills.

Library Studies Courses (LIBR)

LIBR 1 WORKING WITH SOURCES 1 UNIT

Introduction to using sources as supporting documentation in a college level research project. Teaches the skills needed to successfully find, evaluate, use, cite, and document information using library and open web sources. Focus on identifying appropriate sources and proper use of sources. Students will learn to distinguish between source types, how to avoid plagiarism, and how to use sources in their research projects. 18 hours lecture. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

LIBR 4 COLLEGE RESEARCH TECHNIQUES 0.5 UNITS

Introduction to basic research techniques in a college library. Focus is on use of the library catalog, search strategies, organization of materials in the library including reference, faculty reserves, circulating books, audiovisuals, use of reference materials, evaluation of relevant resources, recognition of plagiarism, and bibliographic citation of books, audiovisuals, and magazines and journals. 9 hours lecture. Transfer: CSU, UC*. *LIBR 4, 5, 6, 7, and 8 combined: maximum UC credit, one course.

Degree Applicable, Credit Grading Option: P/NP

LIBR 6 RESEARCH IN SPECIAL SUBJECTS 0.5 UNITS

Introduction to college library research techniques in a specific subject area. Focus on campus and remote use of subject databases, emphasis on discipline specific physical and electronic resources, search strategies, evaluation of relevant resources, distinction between scholarly journals and popular magazines, discussion of plagiarism, and bibliographic citation of materials. 9 hours lecture. Transfer: CSU, UC*. *LIBR 4, 5, 6, 7, and 8 combined: maximum UC credit, one course.

Degree Applicable, Credit Grading Option: P/NP

LIBR 7 THE OPEN WEB AND SEARCH ENGINES 0.5 UNITS

Introduction to research techniques in a college library using search engines to find materials on the open web. Focus on use of the open web for research purposes, including web search strategies, appropriate search engines and directories, evaluation techniques for web resources, recognition of plagiarism, and bibliographic citation of web resources. 9 hours lecture. Transfer: CSU, UC*. *LIBR 4, 5, 6, 7, and 8 combined: maximum UC credit, one course.

Degree Applicable, Credit Grading Option: P/NP

**LIBR 29 INDEPENDENT STUDY, 0.5-2 UNITS
LIBRARY STUDIES**

Supervised study in the area of Library Studies. Any student interested in registering for an Independent Studies course should contact a full/part-time instructor or dean in the appropriate area. 27-108 hours of laboratory.

MARKETING

Marketing consists of activities that direct the flow of goods and services from producer to consumer. This may include product development, retail management, distribution, advertising, and personal selling. This broad field offers many employment opportunities and the course offerings at Las Positas College provides students a solid foundation and preparation for entry level marketing positions. Students may pursue courses, degrees and certificates to upgrade skills and prepare them for work or transfer to a four-year college or university.

Programs of Study

Degrees:

- AA – Marketing

Certificates of Achievement:

- Retailing

AA – Marketing

About the Degree

The Associate in Arts in Marketing is a general business degree for those who want to pursue entry-level jobs in marketing. In addition to advertising and promotion, the field of marketing involves everything from researching whether a new product is needed, to labeling, packaging, transportation, warehousing, merchandising and sales. Entry-level marketing positions exist in manufacturing, service firms, wholesalers, retailers, advertising agencies, consulting firms and private and public non-profit organizations. This degree provides students with an understanding of business operations, including determining the demand for products and services to be offered by a firm and the identification of appropriate target markets to construct a detailed marketing plan. Courses prepare students for studying business at most universities. This program fulfills typical lower-division requirements at baccalaureate institutions. Counselors will assist students in preparing a comprehensive Student Education Plan that will prepare them to transfer to the university of their choice. Counselors will also advise students on the general education plan that best prepares them for future transfer.

Career Opportunities

Entry-level jobs exist in manufacturing, service firms, wholesalers, retailers, advertising agencies, consulting firms and private and public non-profit organizations.

Program Outcomes

- Upon completion of the AA in Marketing, students are able to compare and contrast the processes used to determine the (1) demand for products and services to be offered by a firm and the (2) identification of appropriate target markets.
- Upon completion of the AA in Marketing, students are able to construct a detailed marketing plan, which includes all aspects of the marketing mix.
- Upon completion of the AA in Marketing, students are able to demonstrate knowledge of business operations, the business organization, business environments, and business procedures.
- Upon completion of the AA in Marketing, students are able to detail available pricing strategies and prepare comparisons of strategies to achieve a firm's market objectives.

Required Core: (19 Units)

BUSN 18 (Business Law).....	4
BUSN 40 (Introduction to Business).....	3
BUSN 55 (Business Mathematics).....	3
CIS 50 (Introduction to Computing Information Technology)	3
MKTG 50 (Introduction to Marketing)	3
MKTG 61 (Professional Selling)	3

List A: Select One Course from Each Area

Area 1

BUSN 1A (Financial Accounting).....	4
BUSN 51 (Accounting for Small Businesses).....	3

Area 2

BUSN 48 (Human Relations in Organizations).....	3
BUSN 52 (Business Communications).....	3
BUSN 53 (Business Correspondence).....	3

Area 3

ECON 2 (Principles of Macroeconomics)	3
ECON 10 (General Economics)	3

Area 4

MKTG 56 (Marketing Strategies)	3
MKTG 64 (Introduction to Advertising)	3

Area 5

BUSN 56 (Introduction to Management)	3
WRKX 94 (Occupational Work Experience/Internship)	1-3
WRKX 95 (General Work Experience)	1-3

Total Units for the Major 32-35

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU)

patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Retailing

About the Certificate

The Certificate of Achievement in Retailing provides a detailed focus on the retailing efforts of products and services with the objective of meeting and exceeding consumer's expectations and engaging consumers for the long term. This certificate provides students with the knowledge needed in the various retail marketing environments. Students learn the fundamentals of marketing goods and services in the B2C and B2B environments. This certificate provide students with essential knowledge concerning retailing, including effective operations, retail structure, non-store retailing, and upcoming trends. The Retailing Certificate is designed for individuals with career interests in the retail management field or those seeking to enhance existing knowledge and skills.

Career Opportunities

Retail is a growing fast paced, and diverse industry with many opportunities for career advancement. Careers are available in all areas of business. Opportunities for retailing professionals are growing exponentially due to the rapidly expanding retail platforms. The Bureau of Labor Statistics indicates that the field employs over 42 million people and is responsible for 1 in 4 jobs in the United States. Projections indicate the field will be viable over the next 20 years. Career options include positions in merchandising, independent small retailer management, online engagement specialists, display positions, and others.

Program Outcomes

- Upon completion of the Certificate of Achievement in Retailing, students are able to compare and contrast the various pricing strategies.
- Upon completion of the Certificate of Achievement in Retailing, students are able to determine the demand for products and services offered by a firm and identify potential customers.
- Upon completion of the Certificate of Achievement in Retailing, students are able to develop pricing strategies with the goal of maximizing the firm's profits and/or market share while ensuring customer satisfaction.
- Upon completion of the Certificate of Achievement in Retailing, students are able to explain promotional mixes and effective strategies for each.
- Upon completion of the Certificate of Achievement in Retailing, students are able to identify distinctions between distribution channels.
- Upon completion of the Certificate of Achievement in Retailing, students are able to identify the primary business operations,

business organizational options, and business procedures.

- Upon completion of the Certificate of Achievement in Retailing, students are able to list resources and strategies for monitoring trends which help identify the need for new products and services.
- Upon completion of the Certificate of Achievement in Retailing, students are able to summarize measures that can be taken by individuals and organizations to correct organizational dysfunctions.

Required Core: (19 Units)

BUSN 48 (Human Relations in Organizations)	3
CIS 55 (Integrating Office Applications)	4
MKTG 50 (Introduction to Marketing)	3
MKTG 56 (Marketing Strategies)	3
MKTG 61 (Professional Selling)	3
MKTG 64 (Introduction to Advertising)	3

List A: Select One (3 Units)

BUSN 52 (Business Communications)	3
CMST 1 (Fundamentals of Public Speaking)	3

List B: Select One (3-6 Units)

WRKX 94 (Occupational Work Experience/Internship)	3 - 6
WRKX 95 (General Work Experience)	3 - 6

Total Units25-28

Marketing Courses (MKTG)

MKTG 50 INTRODUCTION TO MARKETING 3 UNITS

Marketing as a value exchange process involving all societal members; an overview of product development, pricing, placement, and promotion; Target markets including the demographic and behavioral dimensions of markets; analyses of marketing placement and pricing strategies and the social, cultural, economic, competitive and legal factors affecting marketing mix decisions. Strongly Recommended: ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: IV. Transfer: CSU; CSU GE: D7.

Degree Applicable, Credit Grading Option: OP

MKTG 56 MARKETING STRATEGIES 3 UNITS

Current marketing trends, strategies, and techniques. Introduction to online and social media marketing. The promotional process and techniques in the development of effective content creation and branding. Advanced theories, principles, and practices of customer service, customer loyalty, and the customer experience. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

MKTG 60 RETAIL STORE MANAGEMENT 3 UNITS

Profitably starting and managing a retail business. Operational strategies regarding site identification and selection, buying alternatives, pricing options, merchandising strategies, staffing,

financial, cash and risk management, point of sale considerations, and information systems. Strongly Recommended: BUSN 53 with a minimum grade of C, MKTG 50 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

MKTG 61 PROFESSIONAL SELLING 3 UNITS

Principles and techniques involved in selling products, ideas, and/or services. Focus is on building relationships with others, identifying the reasons a purchase decision may be made. Includes buying motives, communication options, developing commonalities, sales call planning, ethics, follow-up contacts, and customer service. Interactions for face-to-face and online encounters; professional and technical products; consultants; and anyone wanting to improve their interactions with others. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

MKTG 64 INTRODUCTION TO ADVERTISING 3 UNITS

An examination of the major aspects of modern advertising and its position as one of the components of integrated marketing communications. This course explores the expanding options of advertising media. Key areas explored include the social and economic role of advertising, research, planning of the media campaign, media planning, strategy selection and integration with other elements of the marketing mix. This course provides an introduction to the fundamentals of advertising with emphasis on conceptual process and development, and basic advertising methodologies and techniques. Emphasis is on the application of advertising principles, planning, and design. Strongly Recommended: MKTG 50 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

MATHEMATICS

Mathematics is one of the oldest intellectual disciplines, yet it has never lost its relevance; we are continually finding new and exciting applications in fields as diverse as biology and counter-terrorism. Mathematical methods play a pivotal role in bioinformatics, cryptography, computer graphics, analysis of large-scale networks, cyber security and operations research, as well as in computer science, engineering, business, and the natural, physical and social sciences. Applications of mathematics can be found in many vocational disciplines such as carpentry, electronics, automotive technology and welding.

The Mathematics department at Las Positas College offers a wide range of courses in a variety of formats designed to meet the needs of a diverse student population. Whatever your educational goals, we have the courses you need to succeed. We offer a full lower-division curriculum which prepares students for transfer to four-year institutions, as well as basic skills and associate degree applicable courses.

Programs of Study

Degrees:

- AS-T – Mathematics

Career Opportunities

The Associate of Science Degree in Mathematics for Transfer is intended to provide an option for students who plan to complete a bachelor's degree in a similar major at a CSU campus, or pursue a teaching career, since teachers of mathematics are always in demand. The study of mathematics can prepare students for a variety of technical and scientific careers. The problem-solving and communication skills acquired are valuable in business, industry, and everyday life, and mathematics is an essential component of any engineering or science degree.

Mathematics courses can be taken in a variety of modes including "traditional" lecture, hybrids of on-campus and online, and in the Math Emporium. For more information about these modes, and which fits your learning style, please see www.LasPositasCollege.edu/Math

Math Emporium

The Math Emporium consists of courses offered in an independent study/self-accelerated mode. In the Math Emporium, a math instructor, an instructional assistant, and a peer tutor are available to answer questions. Students attend at a specified time to work through the material at their own pace. The instructor will not hold formal class-wide lectures. Each student completes homework and lab assignments as they work independently through the material. Students must take and pass a chapter exam before moving on to the next chapter. These courses are designated in the schedule by an "X" followed by the section number (e.g. Math 107 – X01 indicates that this is a Pre-Algebra course offered as part of the Math Emporium).

These courses work well for students with the following characteristics:

1. I am a self-motivated, dedicated, and organized student.
2. I need a quick brush up on my algebra skills.
3. I can learn the material using my textbook, online supports, video lectures and classroom support staff.

Students may complete any of the following courses in the Math Emporium Mode:

- MATH 53A, 53B – Technical Intermediate Algebra for Welding
- MATH 55 – Intermediate Algebra
- MATH 72A, 72B, 72C, 72D – Technical Elementary Algebra
- MATH 107 – Pre-Algebra
- MATH 110 – Elementary Algebra

AS-T – Mathematics

About the Degree

The Las Positas College Mathematics program offers courses that lead to an Associate of Science in Mathematics for Transfer degree. The major requirements for the Associate of Science in Mathematics for Transfer degree align with the Intersegmental Transfer Model Curriculum (TMC) for Mathematics. Students will have guaranteed admission to a California State University (CSU) campus upon successful completion of the program requirements. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Career Opportunities

The Associate of Science in Mathematics for Transfer degree is intended to provide an option for students who plan to complete a bachelor's degree in a similar major at a CSU campus, or pursue a teaching career, since teachers of mathematics are always in demand. They study of mathematics can prepare students for a variety of technical and scientific careers. The problem-solving and communication skills acquired are valuable in business, industry, and everyday life, and mathematics is an essential component of any engineering or science degree.

Program Outcomes

- Upon completion of the Mathematics AS-T, students are able to

demonstrate the ability to use symbolic, graphical, numerical, and written representations of mathematical ideas.

- Upon completion of the Mathematics AS-T, students are able to learn mathematics through modeling real-world situations.
- Upon completion of the Mathematics AS-T, students are able to read, write, listen to, and speak mathematics with understanding.
- Upon completion of the Mathematics AS-T, students are able to use appropriate technology to enhance their mathematical thinking and understanding, solve mathematical problems, and judge the reasonableness of their results.
- Upon completion of the Mathematics AS-T, students are able to use mathematical reasoning and, when appropriate, a general problem solving process to solve problems.

Required Core: (15 Units)

MATH 1 (Calculus I).....	5
MATH 2 (Calculus II)	5
MATH 3 (Multivariable Calculus).....	5

List A: Select One (3.5 Units)

MATH 5 (Ordinary Differential Equations).....	3.5
MATH 7 (Elementary Linear Algebra)	3.5

List B: Select One (3.5-5 Units)

Any List A course not already used.....	3.5
CS 1 (Computing Fundamentals I)	4
MATH 40 (Statistics and Probability)	4
PHYS 1A (General Physics I)	5

Total Units for the Major 22-23.5

Additional General Education and Elective Units ... 36.5-38

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Mathematics Courses (MATH)

MATH 1 CALCULUS I 5 UNITS

An introduction to single-variable differential and integral calculus including: functions, limits and continuity; techniques and applications of differentiation and integration; the Fundamental Theorem of Calculus; areas and volumes of solids of revolution. Prerequisite: MATH 30 with a minimum grade of C, MATH 39 with a minimum grade of C. 90 hours lecture. AA/AS GE: IB, MP. Transfer: CSU, UC*; CSU GE: B4; IGETC: 2A; C-ID# MATH 211, MATH 900 S (if taken with MATH 2). *MATH 1, 33, and 34 combined: maximum UC credit, one course.

Degree Applicable, Credit Grading Option: GR

MATH 2 CALCULUS II **5 UNITS**

Continuation of single-variable differential and integral calculus. Topics covered include: inverse and hyperbolic functions; techniques of integration; polar and parametric equations; infinite sequences, series, power series and Taylor series; applications of integration. Primarily for mathematics, physical science and engineering majors. Prerequisite: MATH 1 with a minimum grade of C. 90 hours lecture. AA/AS GE: IB, MP. Transfer: CSU, UC; CSU GE: B4; IGETC: 2A; C-ID# MATH 221, MATH 900 S (if taken with MATH 1).

Degree Applicable, Credit Grading Option: GR

MATH 3 MULTIVARIABLE CALCULUS **5 UNITS**

Vector valued functions, functions of several variables, partial differentiation, multiple integration, change of variables theorem, scalar and vector fields, gradient, divergence, curl, line integral, surface integral, Green's Stokes' and divergence theorem, applications. Prerequisite: MATH 2 with a minimum grade of C. 90 hours lecture. AA/AS GE: IB, MP. Transfer: CSU, UC; CSU GE: B4; IGETC: 2A; C-ID# MATH 230.

Degree Applicable, Credit Grading Option: GR

MATH 5 ORDINARY DIFFERENTIAL EQUATIONS **3.5 UNITS**

Introduction to differential equations including the conditions under which a unique solution exists, techniques for obtaining solutions, and applications. Techniques include generation of series solutions, use of Laplace Transforms, and the use of eigenvalues to solve linear systems. Generation of exact solutions, approximate solutions, and graphs of solutions using MATLAB. Prerequisite: MATH 3 with a minimum grade of C. 54 hours lecture, 27 hours laboratory. AA/AS GE: IB, MP. Transfer: CSU, UC; CSU GE: B4; IGETC: 2A; C-ID# MATH 240.

Degree Applicable, Credit Grading Option: GR

MATH 7 ELEMENTARY LINEAR ALGEBRA **3.5 UNITS**

An introduction to linear algebra including: techniques and theory needed to solve and classify systems of linear equations using Gaussian elimination and matrix algebra; properties of vectors in n-dimensions; generalized vector spaces, inner product spaces, basis, norms, orthogonality; eigenvalues, eigenspaces; and linear transformations. Selected applications of linear algebra, including the computation. Prerequisite: MATH 2 with a minimum grade of C. 54 hours lecture. 27 hours laboratory. AA/AS GE: IB, MP. Transfer: CSU, UC; CSU GE: B4; IGETC: 2A; C-ID# MATH 250.

Degree Applicable, Credit Grading Option: GR

MATH 10 DISCRETE MATHEMATICAL STRUCTURES **4 UNITS**

Designed for majors in mathematics and computer science, this course provides an introduction to discrete mathematical structures used in Computer Science and their applications. Course content includes: Propositional and predicate logic; rules of inference; quantifiers; elements of integer number theory; set theory; methods of proof; induction; combinatorics and discrete probability; functions and relations; recursive definitions and recurrence relations;

elements of graph theory and trees. Applications include: analysis of algorithms, Boolean algebras and digital logic circuits. Students who have completed, or are enrolled in, CS 17 may not receive credit. Prerequisite: MATH 1 with a minimum grade of C (May be taken concurrently), CS 1 with a minimum grade of C (May be taken concurrently). 72 hours lecture, 18 hours laboratory. AA/AS GE: IB, MP. Transfer: CSU, UC; CSU GE: B4; IGETC: 2A; C-ID# COMP 152.

Degree Applicable, Credit Grading Option: GR

MATH 27 NUMBER SYSTEMS FOR EDUCATORS **3 UNITS**

This course focuses on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including real number systems and subsystems. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. Prerequisite: MATH 50 with a minimum grade of C or MATH 55 with a minimum grade of C or NMAT 255 with a minimum grade of C or NMAT 250 with a minimum grade of C. 54 hours lecture. AA/AS GE: IB, MP. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

MATH 29 INDEPENDENT STUDY, MATHEMATICS **0.5-2 UNITS**

For course information, see "Independent Studies". 27-108 hours laboratory.

MATH 30 COLLEGE ALGEBRA FOR STEM **4 UNITS**

College algebra core concepts relating to Science, Technology, Engineering and Mathematics (STEM) and Business fields are explored, such as: polynomial, rational, radical, exponential, absolute value, and logarithmic functions; systems of equations; theory of polynomial equations; and analytic geometry. Multiple representations, applications and modeling with functions are emphasized throughout. May not receive credit if Mathematics 20 or 45 have been completed. Prerequisite: MATH 55 with a minimum grade of C or MATH 55B with a minimum grade of C or NMAT 255 with a minimum grade of C. 72 hours lecture, 18 hours laboratory. AA/AS GE: IB, MP. Transfer: CSU, UC; CSU GE: B4; IGETC: 2A; C-ID# MATH 151.

Degree Applicable, Credit Grading Option: GR

MATH 33 FINITE MATHEMATICS **4 UNITS**

Linear functions, systems of linear equations and inequalities, exponential and logarithmic functions and applications, matrices, linear programming, mathematics of finance, sets and Venn diagrams, combinatorial techniques and an introduction to probability. Applications in business, economics and social sciences. Prerequisite: MATH 50 with a minimum grade of C or MATH 55 with a minimum grade of C or MATH 55B with a minimum grade of C or NMAT 250 with a minimum grade of C or NMAT 255 with a minimum grade of C. 72 hours lecture. AA/AS GE: IB, MP. Transfer: CSU, UC*; CSU GE: B4; IGETC: 2A; C-ID# MATH 130. *MATH 1, 33, and 34 combined: maximum UC credit, one course.

Degree Applicable, Credit Grading Option: GR

MATH 34 CALCULUS FOR BUSINESS AND SOCIAL SCIENCES 5 UNITS

Functions and their graphs; limits of functions; differential and integral calculus of algebraic, exponential and logarithmic functions. Applications in business, economics, and social sciences and use of graphing calculators. Partial derivatives and the method of LaGrange multipliers. Prerequisite: MATH 55 with a minimum grade of C or MATH 55B with a minimum grade of C or NMAT 255 with a minimum grade of C. 90 hours lecture. AA/AS GE: IB, MP. Transfer: CSU, UC*; CSU GE: B4; IGETC: 2A; C-ID# MATH 140. *MATH 1, 33, and 34 combined: maximum UC credit, one course.

Degree Applicable, Credit Grading Option: GR

MATH 39 TRIGONOMETRY 4 UNITS

Trigonometry includes definitions of the trigonometric functions and their inverses, graphs of the trigonometric functions and their inverses, trigonometric equations, trigonometric expressions and identities, including proofs, an introduction to vectors, polar coordinates and complex numbers. Applications include solving right triangles and solving triangles using the law of sines and the law of cosines. Prerequisite: MATH 55B with a minimum grade of C or MATH 55 with a minimum grade of C or NMAT 255 with a minimum grade of C. 72 hours lecture, 18 hours laboratory. AA/AS GE: IB, MP. Transfer: CSU; CSU GE: B4; C-ID# MATH 851.

Degree Applicable, Credit Grading Option: GR

MATH 40 STATISTICS AND PROBABILITY 4 UNITS

Descriptive statistics, including measures of central tendency, dispersion and position; elements of probability; confidence intervals; hypothesis tests; two-population comparisons; correlation and regression; goodness of fit; analysis of variance; applications in various fields. Introduction to the use of a computer software package to complete both descriptive and inferential statistics problems. Prerequisite: MATH 55 with a minimum grade of C or MATH 55B with a minimum grade of C or MATH 50 with a minimum grade of C or NMAT 250 with a minimum grade of C or NMAT 255 with a minimum grade of C. 72 hours lecture, 18 hours laboratory. AA/AS GE: IB, MP. Transfer: CSU, UC; CSU GE: B4; IGETC: 2A; C-ID# MATH 110.

Degree Applicable, Credit Grading Option: GR

MATH 47 MATHEMATICS FOR LIBERAL ARTS 3 UNITS

An introduction to a variety of mathematical concepts for students interested in liberal arts. Intended to cultivate an appreciation of the significance of mathematics in daily life and help develop students' mathematical reasoning. Topics include personal finance, logic, and exponential growth. Prerequisite: MATH 55 with a minimum grade of C or MATH 55B with a minimum grade of C or MATH 50 with a minimum grade of C or NMAT 250 with a minimum grade of C or NMAT 255 with a minimum grade of C. 54 hours lecture, 18 hours laboratory. AA/AS GE: IB, MP. Transfer: CSU, UC; CSU GE: B4; IGETC: 2A.

Degree Applicable, Credit Grading Option: GR

MATH 50 INTERMEDIATE ALGEBRA 4 UNITS

FOR SLAM

This is an Intermediate Algebra course for students interested in fields of study that require Statistics or Liberal Arts Mathematics (SLAM). Intermediate algebra concepts will be explored in the context of the function. Function concepts covered include: distinction between functions and relations, domain and range, function notation, multiple representation of functions, behavior of functions, operations with functions (including composition), one-to-one functions, and invertible functions. Types of functions considered: polynomial, rational, radical, exponential and logarithmic functions. The course includes an introduction to probability, counting and quantitative data. Standards for mathematical practice, applications of functions, and modeling with functions are emphasized throughout. Strongly Recommended: MATH 110 with a minimum grade of C or MATH 110B with a minimum grade of C or NMAT 210 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. AA/AS GE: IB, MP.

Degree Applicable, Credit Grading Option: OP

MATH 53A TECHNICAL INTERMEDIATE ALGEBRA FOR WELDING A 2 UNITS

This course provides a survey of algebraic processes with an emphasis on applications in welding. Topics covered include, but are not limited to: algebraic expressions, plane geometry, the geometry of solids, and triangle trigonometry. This course may not be used as a prerequisite for any transfer level course. Prerequisite: MATH 72C with a minimum grade of C or MATH 72D with a minimum grade of C. 36 hours lecture. AA/AS GE: IB.

Degree Applicable, Credit Grading Option: OP

MATH 53B TECHNICAL INTERMEDIATE ALGEBRA FOR WELDING B 1 UNIT

This course provides a survey of algebraic processes with an emphasis on applications in welding. Topics covered include, but are not limited to: quadratic equations, functions, and mathematical models. This course may not be used as a prerequisite for any transfer level course. Prerequisite: MATH 72D with a minimum grade of C and MATH 53A with a minimum grade of C. 18 hours lecture. AA/AS GE: IB, MP.

Degree Applicable, Credit Grading Option: OP

MATH 55 INTERMEDIATE ALGEBRA FOR BSTEM 5 UNITS

Intermediate Algebra concepts, in the service of Business, Science, Technology, Engineering and Math fields (BSTEM), will be explored in this course including: an introduction to functions; linear and absolute value functions; absolute value equations and inequalities; compound linear inequalities; rational expressions, functions and equations; radical expressions, functions and equations; rational exponents; complex numbers; quadratic functions and equations; inverse of a function; exponential and logarithmic functions; properties of logarithms; exponential and logarithmic equations; conic sections; and systems of equations and inequalities. Multiple representations, applications and modeling with functions are emphasized throughout. Strongly Recommended: MATH 110 with a minimum grade of C, MATH 110B with a minimum grade of C, or NMAT 210 with a minimum grade of C. 90 hours lecture. AA/AS

GE: IB, MP.

Degree Applicable, Credit Grading Option: OP

**MATH 55C CONCURRENT SUPPORT FOR 1 UNIT
INTERMEDIATE ALGEBRA**

This course is concurrent support for Intermediate Algebra. The course is designed to provide additional, formal support to students who are currently taking an Intermediate Algebra. It includes a review of arithmetic, algebraic and geometric concepts that are relevant to their Intermediate Algebra course, study strategies that promote understanding and improve performance, and more in-depth investigation of core concepts that are difficult for students to master. Embedded are learning skills such as growth mindset, brain research, time management, study skills, test taking, math anxiety and more. Corequisite: MATH 55 or NMAT 255 or MATH 50 or NMAT 250. 54 hours laboratory.

Degree Applicable, Credit Grading Option: P/NP

**MATH 66 MATH JAM FOR 0.5-1 UNITS
CALCULUS I**

Math Jam for Calculus I is a credit course for students preparing for Calculus I. Embedded are essential study and life skills to develop each student holistically, including career development. Students will be learning basic skills and transfer-level material with the goal of preparing them to be successful in their upcoming class. It is strongly recommended that students taking this course are enrolled in a calculus course. 27- 54 hours laboratory.

Degree Applicable, Credit Grading Option: P/NP

**MATH 66C CONCURRENT SUPPORT FOR 1 UNIT
CALCULUS I**

This course offers structured support to students who are concurrently enrolled in Calculus I. The support course includes material to prepare students for the rigor of the calculus course by teaching learning skills necessary to succeed in college courses as well as review of relevant prerequisite algebraic, geometric and trigonometric concepts, and more in-depth investigation of core concepts in their concurrent math course. Corequisite: MATH 1. 54 hours laboratory.

Degree Applicable, Credit Grading Option: P/NP

**MATH 67 MATH JAM FOR 0.5 UNITS
CALCULUS II**

Math Jam for Calculus II is a credit course for students preparing for Calculus II. Embedded are essential study and life skills to develop each student holistically, including career development. Students will be learning basic skills and transfer-level material with the goal of preparing them to be successful in their upcoming class. It is strongly recommended that students taking this course are enrolled in a calculus course. 27 hours laboratory.

Degree Applicable, Credit Grading Option: P/NP

**MATH 67C CONCURRENT SUPPORT FOR 1 UNIT
CALCULUS II**

This course offers structured support to students who are concurrently enrolled in Calculus II. The support course includes material to prepare students for the rigor of the calculus course

by teaching learning skills necessary to succeed in college courses as well as review of relevant prerequisite algebraic, geometric and trigonometric concepts, and more in-depth investigation of core concepts in their concurrent math course. Corequisite: MATH 2. 54 hours laboratory.

Degree Applicable, Credit Grading Option: P/NP

**MATH 68 MATH JAM FOR 0.5 UNITS
CALCULUS III**

Math Jam for Calculus III is a credit course for students preparing for Calculus III. Embedded are essential study and life skills to develop each student holistically, including career development. Students will be learning basic skills and transfer-level material with the goal of preparing them to be successful in their upcoming class. It is strongly recommended that students taking this course are enrolled in a calculus course. 27 hours laboratory.

Degree Applicable, Credit Grading Option: P/NP

**MATH 68C CONCURRENT SUPPORT FOR 1 UNIT
CALCULUS III**

This course offers structured support to students who are concurrently enrolled in Calculus III. The support course includes material to prepare students for the rigor of the calculus course by teaching learning skills necessary to succeed in college courses as well as review of relevant prerequisite algebraic, geometric and trigonometric concepts, and more in-depth investigation of core concepts in their concurrent math course. Corequisite: MATH 3. 54 hours laboratory.

Degree Applicable, Credit Grading Option: P/NP

**MATH 72A TECHNICAL ELEMENTARY 1 UNIT
ALGEBRA A**

This course provides a survey of computational and elementary algebraic processes with an emphasis on applications in the automotive and welding trades. Topics covered include, but are not limited to: computations with real numbers, ratios, and proportions. This course cannot be used as a prerequisite for Math 50 Core Intermediate Algebra or Math 55 Intermediate Algebra. 18 hours lecture.

Degree Applicable, Credit Grading Option: OP

**MATH 72B TECHNICAL ELEMENTARY 1 UNIT
ALGEBRA B**

This course provides a survey of computational and elementary algebraic processes with an emphasis on applications in the automotive and welding trades. Topics covered include, but are not limited to: linear equations, the rectangular coordinate system, and linear equations in two variables. This course cannot be used as a prerequisite for Math 50 Core Intermediate Algebra or Math 55 Intermediate Algebra. Prerequisite: MATH 72A with a minimum grade of C. 18 hours lecture.

Degree Applicable, Credit Grading Option: OP

**MATH 72C TECHNICAL ELEMENTARY 1 UNIT
ALGEBRA C**

This course provides a survey of computational and elementary algebraic processes with an emphasis on applications in the

automotive and welding trades. Topics covered include, but are not limited to: percentages and measurement. This course cannot be used as a prerequisite for Math 50 Core Intermediate Algebra or Math 55 Intermediate Algebra. Prerequisite: MATH 72A with a minimum grade of C or MATH 72B with a minimum grade of C. 18 hours lecture.

Degree Applicable, Credit Grading Option: OP

MATH 72D TECHNICAL ELEMENTARY ALGEBRA D 1 UNIT

This course provides a survey of computational and elementary algebraic processes with an emphasis on applications in the automotive and welding trades. Topics covered include, but are not limited to: the rectangular coordinate system, linear equations in two variables, and systems of linear equations. This course cannot be used as a prerequisite for Math 50 Core Intermediate Algebra or Math 55 Intermediate Algebra. Prerequisite: MATH 72B with a minimum grade of C and MATH 72C with a minimum grade of C. 18 hours lecture.

Degree Applicable, Credit Grading Option: OP

MATH 100C CONCURRENT SUPPORT FOR SLAM MATHEMATICS 1 UNIT

Concurrent Support for SLAM Math is for students interested in disciplines that require Statistics and Liberal Arts Mathematics (SLAM) courses. This course offers structured support to students who are concurrently enrolled in a first-level transfer course, such as Statistics and Mathematics for Liberal Arts, and Finite Mathematics. The support course includes material to prepare students for the rigor of the transfer math course by teaching learning skills necessary to succeed in college courses as well as review of relevant prerequisite algebraic and geometric concepts, and more in-depth investigation of core concepts in their concurrent math course. Corequisite: MATH 40 or MATH 47 or MATH 33. 54 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/NP

MATH 101C CONCURRENT SUPPORT FOR BSTEM MATHEMATICS 1 UNIT

Concurrent Support for BSTEM Mathematics is for students interested in Business, Science, Technology, Engineering and Mathematical fields. This course offers structured support to students who are concurrently enrolled in a first-level transfer course, such as College Algebra, Trigonometry, and Business Calculus. The support course includes material to prepare students for the rigor of the transfer math course by teaching learning skills necessary to succeed in college courses as well as review of relevant prerequisite algebraic and geometric concepts, and more in-depth investigation of core concepts in their concurrent math course. Corequisite: MATH 30 or MATH 39 or MATH 34. 54 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/NP

MATH 107 PRE-ALGEBRA 4 UNITS

This course is intended to serve as a bridge between arithmetic and Elementary Algebra. It includes a review of arithmetic, operations involving signed integers, fractions, and decimals, variables and variable expressions, simple linear equations and their graphs, percent and proportion, introduction to statistics, geometry and measurement, and application problems. 54 hours lecture, 54 hours

laboratory.

Non-Degree Applicable, Credit Grading Option: OP

MATH 110 ELEMENTARY ALGEBRA 4 UNITS

Elementary algebra concepts, including: real numbers and their properties; algebraic expressions; integer exponents; operations with polynomial expressions; linear and quadratic equations; linear inequalities and set notation; graphs of linear equations and inequalities; slope; systems of linear equations and inequalities; and modeling with linear and quadratic equations. Strongly Recommended: MATH 107 with a minimum grade of C or MATH 107B with a minimum grade of C or NMAT 207 with a minimum grade of C. 72 hours lecture.

Non-Degree Applicable, Credit Grading Option: OP

MATH 156 GEOMETRY 3.5 UNITS

Topics include congruence, similarity, right triangles, trigonometry, circles, expressing geometric properties with equations, geometric measurement and dimension, modeling with geometry, conditional probability and the rules of probability, and using probability to make decisions. Prerequisite: MATH 110 with a minimum grade of C or NMAT 210 with a minimum grade of C. 54 hours lecture, 27 hours laboratory.

Non-Degree Applicable, Credit Grading Option: OP

MUSIC

The LPC Music Program offers a nurturing and personalized educational environment for all students who wish to pursue their passions in performance, composition, theory, music business, music technology, or music education. The program is designed to appeal to a broad range of incoming students, from relative beginners to experienced artists that wish to ultimately move into music as a profession. Students are encouraged to consult music faculty and LPC counselors for guidance when planning their transfer pathways to a four-year institution in this major.

Programs of Study

Degrees:

- AA-T – Music
- AA – Music

Certificates of Achievement:

- Commercial Music: Music Business
- Commercial Music: Music Technology Fundamentals
- Commercial Music: Piano Teaching Fundamentals
- Commercial Music: Scoring For Film and Multimedia
- Commercial Music: Teaching Beginning Piano
- Commercial Music: Teaching Intermediate Piano
- Jazz Studies

Career Opportunities

Career opportunities in Music with further study include but are not limited to: Performer, Music Educator, Composer, Engineer, Mixer, Mastering Engineer, Sound Designer, Music Supervisor, Accompanist, Arranger, Orchestrator, Musicologist, Music Editor, Music Therapist, Music Attorney, Publisher, Booking Agent, Tour Manager, Music Librarian, Music Theorist, Piano Tuner, Music Journalist, Entrepreneur.

AA-T – Music

About the Department

A student earning the Associate in Arts in Music for Transfer Degree will utilize the theoretical elements of music to improve performance; perform music with regard to good use of pitch, tone, balance and expression; read and memorize music; improvise (as appropriate) and interpret music. Courses in the Music Department are designed to fulfill the needs of music majors, professional musicians, and those whose interest is avocational or recreational. Completion of the Associate in Arts in Music for Transfer Degree will provide a streamlined pathway for transfer to a CSU campus with a Music or similar major. Students are encouraged to contact a counselor and consult the Catalog for guidance when planning to transfer to a four-year institution in this major. Although not required to receive

the AA-T in Music, the LPC Music department strongly recommends that its AA-T students complete MUS 1 – Music Literature and piano courses MUS 21A and 21B in preparation for piano placement exams. Students entering the BA in Music will be required to take placement exams in music theory and piano and audition on their major instrument.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AA-T in Music, students are able to adhere to recognized standards of professionalism in a rehearsal setting.
- Upon completion of the AA-T in Music, students are able to analyze, rehearse, and perform music in a variety of genres at a high level.
- Upon completion of the AA-T in Music, students are able to play or sing on pitch in a section and ensemble as directed by a conductor.
- Upon completion of the AA-T in Music, students are able to utilize their knowledge of music theory and music history to analyze, interpret, and gain appreciation for musical works across a variety of genres.

Required Core: (12 Units)

MUS 8A (Music Theory and Musicianship 1)	4
MUS 8B (Music Theory and Musicianship 2)	4
MUS 10A (Music Theory and Musicianship 3)	4

Applied Music: Must take Four Semesters (4 Units)

MUS 38 (Applied Lessons)	4
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Large Ensemble: Select Four (4-8 Units)

MUS 11 (Commercial Music Combo).....	1
MUS 12 (Wind Ensemble)	1
MUS 14 (Jazz Workshop)	1
MUS 15 (Jazz Ensemble)	1
MUS 16 (Philharmonic Orchestra)	1
MUS 17A (Jazz Combo 1)	1
MUS 17B (Jazz Combo 2).....	1
MUS 41 (Instrumental Chamber Music)	1

MUS 44 (Concert Choir)	1
MUS 45 (Chamber Choir).....	2
MUS 46 (Vocal Jazz Ensemble).....	2
MUS 48 (Improvisation Lab)	1

List A: (4 Units)

MUS 10B (Music Theory and Musicianship 4)	4
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Total Units for the Major24-28

Additional General Education and Elective Units 32-36

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AA – Music

About the Degree

The Associate of Arts in Music offers a secure foundation for further study in music, and is designed to prepare students to transfer to many four year colleges. Courses in the Music Department will fulfill the needs of music majors, professional musicians, and those whose interest is recreational. Students who obtain this degree will have completed the common core of lower division courses, including piano courses required for a CSU baccalaureate degree in Music, as well as most UCs and private institutions.

Career Opportunities

Examples of careers for the music major include the following: Accompanist, Acoustician, Adjudicator/Clinician, Agent, Arranger Arts, Entertainment and Contract Attorney, Arts Journalist/ Reviewer, Arts/Personnel Management, Arts Marketing and Sales, Audio Production, Composer, Conductor, Copyist/Transcriber, Copyright Consultant, Cruise Ship Entertainer, Curator (Arts, Instruments and Manuscripts), Editor, Film/T.V./Video Game Composer, Foley Artist, Fundraiser/Grant Writer, Instrument Designer and Builder, Instrument Manufacturer, Intellectual Property Rights Attorney, Keyboard Technician/Piano Tuner, Lyricist, Music-Consultant, Music Librarian, Music Psychologist, Music Store Owner, Music Theoretician, Music Therapist, Musical Theater/Pit Musician, Musicologist, Organ Builder/Tuner/ Technician, Part Preparer, Performer, Producer, Proofreader, Music Educator, Music Publisher, Recording Session Musician, Songwriter, Sound and Stage Technician, Sound Designer, Sound Engineer, Tour/Road Manager.

Program Outcomes

- Upon completion of the AA in Music, students are able to adhere to recognized standards of professionalism in a rehearsal setting.

- Upon completion of the AA in Music, students are able to apply theoretical and analytical tools to musical compositions and performance practices.
- Upon completion of the AA in Music, students are able to play or sing on pitch in a section and ensemble as directed by a conductor.
- Upon completion of the AA in Music, students are able to develop a general overview of music history and stylistic developments to inform performance and analysis.

Required Core: (22 Units)

MUS 8A (Music Theory and Musicianship 1)	4
MUS 8B (Music Theory and Musicianship 2)	4
MUS 10A (Music Theory and Musicianship 3)	4
MUS 10B (Music Theory and Musicianship 4)	4
MUS 21A (Beginning Piano)	1
MUS 21B (Beginning Piano: Intermediate).....	1
MUS 38* (Applied Lessons)	4

List A: Select from Below (4 Units)

MUS 1 (Introduction to Music)	3
MUS 3 (World Music).....	3
MUS 4 (Jazz in American Culture)	3
MUS 5 (American Cultures in Music)	3
MUS 13 (History of Rock & Roll).....	1
MUS 18A (Jazz/Pop Piano 1)	1
MUS 18B (Jazz/Pop Piano 2)	1
MUS 19 (Studies in Music Composition).....	3
MUS 20A (Elementary Guitar)	1
MUS 20B (Study of Guitar)	1
MUS 22A (Scoring for Film and Multimedia 1)	3
MUS 23A (Elementary Voice I).....	1
MUS 23B (Elementary Voice II)	1
MUS 31 (Study of Piano)	1
MUS 34 (Music in Film)	3
MUS 35 (Intro to Music Technology)	3
MUS 36 (Intermediate Music Technology)	3
MUS 37 (Music Industry Career Development)	3
MUS 47 (College Productions-Music).....	1

List B: Select from Below (4 Units)

MUS 11 (Commercial Music Combo).....	1
MUS 12 (Wind Ensemble)	1
MUS 14 (Jazz Workshop).....	1
MUS 15 (Jazz Ensemble)	1
MUS 16 (Philharmonic Orchestra)	1
MUS 17A (Jazz Combo 1)	1
MUS 17B (Jazz Combo 2).....	1
MUS 41 (Instrumental Chamber Music)	1
MUS 44 (Concert Choir)	1
MUS 45 (Chamber Choir).....	2
MUS 46 (Vocal Jazz Ensemble).....	2
MUS 48 (Improvisation Lab)	1

Total Units for the Major 30

* To be taken four times

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with

a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Commercial Music: Music Business

About the Certificate

This program is designed for students who wish to learn or enhance their skills in the music business and become prepared for a career in music business. Students will gain a solid foundation in essential areas such as music theory, promotion, publishing, marketing, licensing, contracts, accounting, music technology, and entrepreneurship.

Career Opportunities

Typical career options include booking agent, personal manager, business manager, concert promotion, studio owner/manager, music legal services, publicity writer/ public relations, tour management, music retail, music publishing and distribution, and music licensing.

Program Outcomes

- Upon completion of the Certificate of Achievement in Commercial Music: Music Business, students are able to analyze and evaluate standard contracts and legal procedures in the music industry.
- Upon completion of the Certificate of Achievement in Commercial Music: Music Business, students are able to develop a variety of approaches for marketing and promoting musical ensembles.
- Upon completion of the Certificate of Achievement in Commercial Music: Music Business, students are able to develop strategies to solve challenges of self employment in the music industry.

Required Core: (18 Units)

BUSN 58 (Small Business Management)	3
MKTG 61 (Professional Selling)	3
MUS 4 (Jazz in American Culture)	3
MUS 5 (American Cultures in Music)	3
MUS 6 (Basic Music Skills)	2
MUS 21A (Beginning Piano)	1
MUS 37 (Music Industry Career Development)	3

List A: Select One (3 Units)

MUS 1 (Introduction to Music)	3
MUS 19 (Studies in Music Composition).....	3

MUS 35 (Intro to Music Technology)	3
Total Units	21

Certificate of Achievement Commercial Music: Music Technology Fundamentals

About the Certificate

The Certificate of Achievement in Commercial Music: Music Technology Fundamentals is designed for students who wish to learn or enhance their skills in the music technology and become proficient in industry standard software and equipment such as Logic, ProTools, Sibelius, and a variety of microphones. Completion of the program will give students the fundamental knowledge and hands-on experience needed to pursue a career in the field.

Career Opportunities

Careers in Music Technology include recording engineer, producer, sound technician, foley artist, live sound engineer, mastering engineer, recording mixer, music editor, sound designer, DJ/remixer.

Program Outcomes

- Upon completion of the Certificate of Achievement in Commercial Music: Music Technology Fundamentals, students are able to demonstrate advanced techniques using a Digital Audio Workstation program with MIDI and live audio capability.
- Upon completion of the Certificate of Achievement in Commercial Music: Music Technology Fundamentals, students are able to present completed audio projects using recorded live audio with appropriate editing, mixing, and mastering techniques.

Required Core: (9 Units)

MUS 6 (Basic Music Skills)	2
MUS 21A (Beginning Piano)	1
MUS 35 (Intro to Music Technology)	3
MUS 36 (Intermediate Music Technology)	3

List A: Select One (1-2 Units)

MUS 11 (Commercial Music Combo).....	1
MUS 12 (Wind Ensemble)	1
MUS 14 (Jazz Workshop)	1
MUS 17A (Jazz Combo 1)	1
MUS 17B (Jazz Combo 2).....	1
MUS 41 (Instrumental Chamber Music)	1
MUS 44 (Concert Choir)	1
MUS 45 (Chamber Choir).....	2
MUS 46 (Vocal Jazz Ensemble)	2
MUS 47 (College Productions-Music)	1
MUS 48 (Improvisation Lab)	1

Total Units	10-11
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Certificate of Achievement Commercial Music: Piano Teaching Fundamentals

About the Certificate

The fully online Certificate of Achievement in Commercial Music: Piano Teaching Fundamentals is designed to provide current or prospective piano teachers with the pedagogical skills and business acumen they will require to succeed in a career as a piano teacher for a wide array of students.

Career Opportunities

Career opportunities include, but are not limited to: Private Piano Teacher for students of all ages and skill levels, piano teacher based in a music studio, music school owner/operator, and group piano teacher.

Program Outcomes

- Upon completion of the Certificate of Achievement in Commercial Music: Piano Teaching Fundamentals, students are able to teach a series of effective piano lessons tailored to a specific student's strengths and weaknesses.
- Upon completion of the Certificate of Achievement in Commercial Music: Piano Teaching Fundamentals, students are able to create a business plan for a successful independent piano teaching studio.
- Upon completion of the Certificate of Achievement in Commercial Music: Piano Teaching Fundamentals, students are able to utilize a variety of piano teaching methods and approaches in a private or group lesson.

Required Core: (10 Units)

BUSN 58 (Small Business Management)	3
MUS 25 (Teaching Beginning Piano)	2
MUS 27 (Teaching Intermediate Piano).....	2
MUS 37 (Music Industry Career Development)	3

Total Units 10

Certificate of Achievement Commercial Music: Scoring for Film and Multimedia

About the Certificate

The Certificate of Achievement in Commercial Music: Scoring for Film and Multimedia program is designed for students who wish to learn or enhance their skills in the art of composition for film or other visual media, and become prepared for a career in music business. Students will gain a well-rounded knowledge of essential areas such as composition, music technology, music theory, keyboard skills, film music history, and entrepreneurship.

Career Opportunities

Film Composer, ADR, Production sound mixer, Sound Designer, Music Editor, Music Supervisor, Copyist, Orchestrator, Composer's Assistant, Video Game Music Composer, Synth/MIDI Programmer

Program Outcomes

- Upon completion of the Certificate of Achievement in Commercial Music: Scoring for Film and Multimedia, students are able to conceptualize, compose, and produce musical cues for visual media.
- Upon completion of the Certificate of Achievement in Commercial Music: Scoring for Film and Multimedia, students are able to communicate and collaborate with a director, conduct an effective spotting session, and revise cues according to feedback.
- Upon completion of the Certificate of Achievement in Commercial Music: Scoring for Film and Multimedia, students are able to heighten the action on screen using themes, syntactic matching, orchestration and timbral changes.

Required Core: (18 Units)

MUS 19 (Studies in Music Composition).....	3
MUS 22A (Scoring for Film and Multimedia 1)	3
MUS 22B (Scoring for Film and Multimedia 2)	3
MUS 35 (Intro to Music Technology).....	3
MUS 36 (Intermediate Music Technology)	3
MUS 37 (Music Industry Career Development)	3

List A: Select One (3-4 Units)

MUS 8A (Music Theory and Musicianship 1)	4
MUS 34 (Music in Film)	3

List B: Select One (1 Unit)

MUS 18A (Jazz/Pop Piano 1)	1
MUS 21A (Beginning Piano)	1

Total Units 22-23

Certificate of Achievement Commercial Music: Teaching Beginning Piano

About the Certificate

The Certificate of Achievement in Commercial Music: Teaching Beginning Piano provides those who are current or prospective piano teachers with practical courses focused on the art of teaching beginning students of all ages, a core music theory and technique background, and essential entrepreneurship skills they will need to succeed in self-employment and/or working for a music school. This certificate includes classes from the business department in addition to the music department.

Career Opportunities

Career opportunities include, but are not limited to: Private Piano

Teacher for beginning students of all ages, piano teacher based in a music studio, music school owner/operator, and group piano teacher.

Program Outcomes

- Upon completion of the Certificate of Achievement in Commercial Music: Teaching Beginning Piano, students are able to develop, market, and maintain a private piano teaching studio.
- Upon completion of the Certificate of Achievement in Commercial Music: Teaching Beginning Piano, students are able to present new pieces to their students by explaining the form, compositional technique, style and mood of the piece, as well as the intent of the composer.
- Upon completion of the Certificate of Achievement in Commercial Music: Teaching Beginning Piano, students are able to solve common teaching issues using a variety of approaches.

Required Core: (13 Units)

MUS 8A (Music Theory and Musicianship 1)	4
MUS 8B (Music Theory and Musicianship 2)	4
MUS 18A (Jazz/Pop Piano 1)	1
MUS 25 (Teaching Beginning Piano)	2
MUS 38 (Applied Lessons)	2

List A: Select Two (5-6 Units)

BUSN 58 (Small Business Management)	3
MKTG 61 (Professional Selling)	3
MUS 26 (Methods/Materials/Piano Teachers)	2

Total Units 18-19

Certificate of Achievement Commercial Music: Teaching Intermediate Piano

About the Certificate

The Certificate of Achievement in Commercial Music: Teaching Intermediate Piano provides students who are current or prospective piano teachers with practical courses focused on the art of teaching intermediate students of all ages, a core music theory and technique background, and essential entrepreneurship skills they will need to succeed in self-employment and/or working for a music school. This certificate includes classes from the business department in addition to the music department.

Career Opportunities

Career opportunities include, but are not limited to: Private Piano Teacher for beginning through intermediate students of all ages, piano teacher based in a music studio, music school owner/operator, and group piano teacher.

Program Outcomes

- Upon completion of the Certificate of Achievement in Commercial Music: Teaching Intermediate Piano, students

are able to choose appropriate methods and repertoire for the intermediate student.

- Upon completion of the Certificate of Achievement in Commercial Music: Teaching Intermediate Piano, students are able to present new pieces to their students by explaining the form, compositional technique, style and mood of the piece, as well as the intent of the composer.

Required Core: (14 Units)

MUS 10A (Music Theory and Musicianship 3)	4
MUS 10B (Music Theory and Musicianship 4)	4
MUS 18A (Jazz/Pop Piano 1)	1
MUS 27 (Teaching Intermediate Piano)	2
MUS 28 (Keyboard Skills)	1
MUS 38 (Applied Lessons)	2

List A: Select Two (6 Units)

BUSN 58 (Small Business Management)	3
MKTG 61 (Professional Selling)	3
MUS 1 (Introduction to Music)	3

Total Units 20

Certificate of Achievement Jazz Studies

About the Certificate

The Certificate of Achievement in Jazz Studies provides creative and innovative training in all styles of jazz for students who wish to become working professionals. Concentrations of study include performance, theory, ear training, history, improvisation, music industry studies, and keyboard skills. Students are provided many opportunities to hone their skills in ensemble settings, individual practice, and The program maintains an active articulation agreement with the California Jazz Conservatory in Berkeley, for those students who wish to go on to earn a BM in Jazz Studies.

Career Opportunities

Opportunities include but are not limited to: Jazz Performance, Jazz Accompaniment, Jazz Arranging Jazz Education, Jazz History, Jazz Journalism, Ensemble Direction, and Music Entrepreneurship.

Program Outcomes

- Upon completion of the Certificate of Achievement in Jazz Studies, students are able to perform, arrange, and compose jazz literature.
- Upon completion of the Certificate of Achievement in Jazz Studies, students are able to analyze and interpret harmonic, melodic, and formal elements of solos by jazz improvisation masters.
- Upon completion of the Certificate of Achievement in Jazz Studies, students are able to rehearse and practice effectively.

Required Core: (18 Units)

MUS 4 (Jazz in American Culture)	3
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MUS 8A (Music Theory and Musicianship 1)	4
MUS 8B (Music Theory and Musicianship 2)	4
MUS 18A (Jazz/Pop Piano 1)	1
MUS 37 (Music Industry Career Development)	3
MUS 38* (Applied Lessons)	2
MUS 48 (Improvisation Lab)	1

List A: Select Two (2-3 Units)

MUS 11 (Commercial Music Combo).....	1
MUS 14 (Jazz Workshop).....	1
MUS 15 (Jazz Ensemble)	1
MUS 17A (Jazz Combo 1)	1
MUS 17B (Jazz Combo 2).....	1
MUS 46 (Vocal Jazz Ensemble).....	2

Total Units **20-21**

* Must take two semesters of Applied Lessons

Music Courses (MUS)

MUS 1 INTRODUCTION TO MUSIC 3 UNITS

Music for enjoyment and understanding through informed listening, analysis, evaluation and discernment of musical elements, forms, and repertoire. Attendance at concerts and listening to a variety of music may be required. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A; C-ID# MUS 100.

Degree Applicable, Credit Grading Option: OP

MUS 3 WORLD MUSIC 3 UNITS

The study of the folk and art music of world cultures. Includes the traditional music of Sub-Saharan Africa, Middle East, China, Japan, Indonesia, India, Latin America, Europe, and Native American. Attendance at world music concerts is required. 54 hours lecture. AA/AS GE: III, AC. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit Grading Option: OP

MUS 4 JAZZ IN AMERICAN CULTURE 3 UNITS

History, trends and influences of the phenomenon of jazz through integration of the cultures of (but not limited to) African-American, European-American and the Latin-American communities. Required listening, reading and concert attendance will guide the student to value jazz as a form of self expression and improve the ability to listen and understand the various eras in jazz from pre-Dixieland to present day. 54 hours of lecture. AA/AS GE: III, AC. Transfer: CSU, UC; CSU GE: C1; IGETC : 3A

Degree Applicable, Credit Grading Option: OP

MUS 5 AMERICAN CULTURES IN MUSIC 3 UNITS

Music in twentieth century United States through the study of contributions of three selected groups from the following: African-Americans, Latin-Americans, Asian-Americans, European-Americans, and Native Americans. Emphasis on understanding diverse styles, and on integrating these styles into American music. Concert, religious, and folk-pop music will be included. 54 hours lecture. AA/AS GE: III, AC. Transfer: CSU, UC; CSU GE: C1;

IGETC: 3A.

Degree Applicable, Credit Grading Option: OP

MUS 6 BASIC MUSIC SKILLS 2 UNITS

Essentials of music through notation, times elements, melody, harmony, and tonality, texture, dynamics and knowledge of the keyboard. Sight singing and ear training. 36 hours lecture. Family: Music Harmony amd Musicianship Elementary. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; C-ID# MUS 110.

Degree Applicable, Credit Grading Option: OP

MUS 8A MUSIC THEORY AND MUSICIANSHIP 1 4 UNITS

Elements of diatonic harmony through part writing and ear training exercises as typified by musical practice from 1600 to the present. Includes keys, modes, scales, tonality, intervals, solfeggio, consonance/dissonance, rhythmic organization, chord structures, chord and interval recognition, melodic and rhythmic dictation, voice leading principles, non-chord tones, four-part voice leading with selected primary and secondary chords, and figured bass realization. Strongly Recommended: MUS 6 with a minimum grade of C, MUS 21A with a minimum grade of C. 63 hours lecture, 27 hours laboratory. Family: Music Harmony amd Musicianship Elementary. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC 3A; C-ID# MUS 120, MUS 125.

Degree Applicable, Credit Grading Option: OP

MUS 8B MUSIC THEORY AND MUSICIANSHIP 2 4 UNITS

Continues diatonic harmony through part writing and ear training exercises as typified by musical practice from 1600 to the present, continues solfeggio, chord recognition, melodic and rhythmic dictation, voice leading involving four-part choral writing, and figured bass realization. Introduces harmonic dictation, cadential elaboration, non-dominant seventh chords, and an introduction to secondary/applied chords and modulation. Prerequisite: MUS 8A with a minimum grade of C. Strongly Recommended: MUS 21A with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Family: Music Harmony amd Musicianship Elementary. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A; C-ID# MUS 130, MUS 135.

Degree Applicable, Credit Grading Option: OP

MUS 10A MUSIC THEORY AND MUSICIANSHIP 3 4 UNITS

This course incorporates the concepts from the Mus 8 series. In addition, through analysis and composition, the course will include: introduction to chromatic harmony; secondary/applied chords; modulation; borrowed chords; introduction to Neapolitan and augmented-sixth chords. Mus 10A also applies and develops the rhythmic, melodic, and harmonic materials of the musicianship portion of Mus 8 series through ear training, sight singing, analysis, and dictation. Prerequisite: MUS 8B with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Family: Music Harmony amd Musicianship Intermediate. Transfer: CSU, UC; C-ID# MUS 140, MUS 145.

Degree Applicable, Credit Grading Option: OP

MUS 10B MUSIC THEORY AND MUSICIANSHIP 4 4 UNITS

This course incorporates the concepts from Music 10A. In addition, through analysis and composition, the course will include: post-Romantic techniques such as borrowed chords and modal mixture, chromatic mediants, Neapolitan and augmented-sixth chords, 9th, 11th and 13th chords, altered chords and dominants; and 20th century techniques such as: Impressionism, tone rows, set theory, pandiatonicism and polytonalism, meter and rhythm. This course also applies and develops the rhythmic, melodic, and harmonic materials of MUS 10A through ear training, sight singing, analysis, and dictation. Prerequisite: MUS 10A with a minimum grade of C. 54 hours lecture, 54 hours laboratory. Family: Music Harmony and Musicianship Intermediate. Transfer: CSU, UC; C-ID# MUS 150, MUS 155.

Degree Applicable, Credit Grading Option: OP

MUS 11 COMMERCIAL MUSIC COMBO 1 1 UNIT

For instrumentalists and vocalists who want experience in performing and interpreting small-group commercial music literature. Emphasis will be on articulations, stylistic differences, composition, arranging, and common performance practices. Enrollment by audition only. Strongly Recommended: MUS 18A with a minimum grade of C, MUS 6 with a minimum grade of C. 54 hours laboratory. Transfer: CSU; C-ID# MUS 185. Number of times course may be taken for credit: 4.

Degree Applicable, Credit Grading Option: OP

MUS 12 WIND ENSEMBLE 1 1 UNIT

Wind ensemble repertoire of all styles and periods. Emphasis on group participation and public performance. Attendance at all scheduled performances required. Enrollment is subject to a standardized audition demonstrating musical ability and technical proficiency suitable to the course level. 72 hours laboratory. Family: Music Band. AA/AS GE: III. Transfer: CSU, UC; C-ID# MUS 180. Number of times course may be taken for credit: 4.

Degree Applicable, Credit Grading Option: OP

MUS 13 HISTORY OF ROCK & ROLL 3 3 UNITS

A cultural survey of original American music traditions, forms and trends influenced by cultural, socio-economic, socio-political and economic changes including blues, jazz, early rock, the "British invasion," rap, hip hop culture, Latino rock, heavy metal, jazz-rock fusion, electronic, modern rock, and pop. 54 hours lecture. AA/AS GE: III, AC. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit Grading Option: OP

MUS 14 JAZZ WORKSHOP 1 1 UNIT

Reading, preparation and performance of contemporary Jazz music. Opportunity to apply improvisation techniques in a group setting. 54 hours laboratory. Family: Music Jazz Instrumental. AA/AS GE: III. Transfer: CSU, UC; C-ID# MUS 180. Number of times course may be taken for credit: 4.

Degree Applicable, Credit Grading Option: OP

MUS 15 JAZZ ENSEMBLE 1 1 UNIT

This course is for the study, rehearsal, and public performance of standard jazz ensemble literature, with an emphasis on the development of skills needed to perform within an ensemble. New literature will be studied each term so that different technical and artistic issues are addressed. Opportunities to arrange and compose for the ensemble as well as to conduct. Opportunity to apply improvisation techniques in a group setting. 54 hours laboratory. Family: Music Jazz Instrumental. Transfer: CSU, UC; C-ID# MUS 180. Number of times course may be taken for credit: 4.

Degree Applicable, Credit Grading Option: OP

MUS 16 PHILHARMONIC ORCHESTRA 1 1 UNIT

This course is for the study, rehearsal, and public performance of the standard Classical orchestra literature, with an emphasis on the development of skills needed to perform within an ensemble. Different literature is studied each semester so that different technical, historical and artistic issues are addressed. Attendance at all scheduled performances is required. Audition required. 54 hours laboratory. Family: Music Orchestra/Symphony. Transfer: CSU, UC; C-ID# MUS 180. Number of times course may be taken for credit: 4.

Degree Applicable, Credit Grading Option: OP

MUS 17A JAZZ COMBO 1 1 1 UNIT

For instrumentalists who want experience in performing and interpreting small-group literature. The music literature will cover important aspects of Jazz band development and works of all styles and periods. Emphasis will be on articulations, stylistic differences, composition, arranging, and common performance practices of the various periods of music. Strongly Recommended: MUS 18A with a minimum grade of C, MUS 6 with a minimum grade of C. 54 hours laboratory. Family: Music Jazz Combo. Transfer: CSU, UC; C-ID# MUS 180, MUS 185. Number of times course may be taken for credit: 4.

Enrollment Limitation: Audition Required

Degree Applicable, Credit Grading Option: OP

MUS 17B JAZZ COMBO 2 1 1 UNIT

For intermediate/advanced instrumentalists who want to continue what they learned in 17A by performing, composing, and arranging small-group literature. Prerequisite: MUS 17A with a minimum grade of C. 54 hours laboratory. Family: Music Jazz Combo. Transfer: CSU, UC; C-ID# MUS 180, MUS 185. Number of times course may be taken for credit: 4.

Enrollment Limitation: Audition Required

Degree Applicable, Credit Grading Option: OP

MUS 18A JAZZ/POP PIANO 1 1 1 UNIT

Voicing, chords, and guidelines for interpretation of lead sheets in a variety of genres for the contemporary pianist. Emphasis on improvisation, accompaniment, bass lines, grooves, and reharmonization. Strongly Recommended: MUS 21A with a minimum grade of C. 54 hours laboratory. Family: Music Jazz/Pop Piano. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MUS 18B JAZZ/POP PIANO 2 1 1 UNIT

Building on the content offered in Music 18A, this course offers more advanced voicings, chords, and guidelines for interpretation of lead sheets in a variety of genres for the contemporary pianist. The student learns chords and chord progressions used in jazz and popular music styles as applied to the keyboard, focusing on chromatic seventh chords and sequences, chord extensions and advanced rhythmic concepts. Prerequisite: MUS 18A with a minimum grade of C. 54 hours laboratory. Family: Music Jazz/Pop Piano. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MUS 19 STUDIES IN MUSIC COMPOSITION 3 UNITS

Presents a technical and historical analysis of works in various music languages. Students will compose individual pieces to be performed by college-based music ensembles. Strongly Recommended: MUS 8A with a minimum grade of B. 54 hours lecture. Family: Music Composition. AA/AS GE: III. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MUS 20A ELEMENTARY GUITAR 1 UNIT

Beginning guitar using a combination of folk and classic approaches to playing technique, utilizing basic scales and chords in first position, and music notation. Strongly Recommended: MUS 6 with a minimum grade of C. Family: Music Guitar. 54 hours laboratory. AA/AS GE: III. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MUS 20B STUDY OF GUITAR 1 UNIT

Development of skills and knowledge from Music 20A. Emphasis on playing techniques and performance. Designed for the intermediate and advanced performer. Prerequisite: MUS 20A with a minimum grade of C. 54 hours laboratory. Family: Music Guitar. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MUS 20C ADVANCED GUITAR 1 UNIT

Development of skills and knowledge from Music 20B. Emphasis on advanced playing techniques and performance. Designed for the advanced performer. Prerequisite: MUS 20B with a minimum grade of C. 54 hours laboratory. Family: Music Guitar. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MUS 21A BEGINNING PIANO 1 UNIT

Group instruction in piano for the absolute beginner with emphasis on developing technique, reading music, and performing. Strongly Recommended: MUS 6 with a minimum grade of C. 54 hours laboratory. Family: Music Piano. AA/AS GE: III. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MUS 21B BEGINNING PIANO: INTERMEDIATE 1 UNIT

Development of skills learned in Music 21A. Emphasis on further development of technique and performance. Prerequisite: MUS 21A with a minimum grade of C. 54 hours laboratory. Family: Music Piano. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MUS 22A SCORING FOR FILM AND MULTIMEDIA 1 3 UNITS

Applications and techniques of composition and sound effects for film and other visual media. Musical and technical elements of producing digital audio tracks are covered. Strongly Recommended: MUS 35 with a minimum grade of C. 54 hours lecture. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MUS 22B SCORING FOR FILM AND MULTIMEDIA 2 3 UNITS

Building on material covered in Scoring for Film and Multimedia 1, students will continue to hone compositional technique for film and other visual media. Upon successful completion of this course, students will be prepared to enter the film music industry with necessary skill sets to succeed. Prerequisite: MUS 22A with a minimum grade of C. Strongly Recommended: MUS 36 with a minimum grade of C. 54 hours lecture. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MUS 23A ELEMENTARY VOICE I 1 UNIT

Group singing with emphasis on solo performance. Tone production, Breathing, diction, and interpretation in regard to song literature. Strongly Recommended: MUS 6. 54 hours laboratory. Family: Music Voice. AA/AS GE: III. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MUS 23B ELEMENTARY VOICE II 1 UNIT

Development of skills learned in Music 23A. Emphasis on further development of vocal production and performance. Prerequisite: MUS 23A with a minimum grade of C. 54 hours laboratory. Family: Music Voice. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MUS 25 TEACHING BEGINNING PIANO 2 UNITS

Principles of successful piano teaching with emphasis upon development of technique and reading ability in beginner level students; private and group piano teaching methods; personal development as teacher and musician. Observation of piano lessons or classes and supervised practice teaching of private or class piano students may be required. Intended for pianists with intermediate or advanced skills. Strongly Recommended: MUS 21B with a minimum grade of C. 36 hours lecture. Family: Music Piano Pedagogy. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

MUS 26 METHODS/MATERIALS/PIANO TEACHERS 2 UNITS

Examination of various methods for use in teaching piano; setting up a teaching studio and maintaining the business; finding and selecting supplementary literature; preparing for recitals and other special events. Intended for pianists with intermediate or advanced skills who are engaged in the teaching of piano or who would like to prepare to teach. Strongly Recommended: MUS 21B with a minimum grade of C. 36 hours lecture. Family: Music Piano Pedagogy. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

MUS 27 TEACHING INTERMEDIATE PIANO 2 UNITS

Principles of successful piano teaching with emphasis upon continued development of technique and reading ability in intermediate level students; private and group piano teaching methods; selection of intermediate literature; Baroque, Classical, Romantic and 20th Century styles; studio organization and personal development as teacher and musician. Observation of piano lessons or classes and supervised practice teaching of private or class piano students may be required. Intended for pianists with intermediate or advanced skills. Strongly Recommended: MUS 21B with a minimum grade of C. 36 hours lecture. Family: Music Piano Pedagogy. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

MUS 28 KEYBOARD SKILLS 1 UNIT

Emphasis on correct harmonization of melodies with various styles of piano accompaniments; transposition; improvisation; modulation; sight reading; principles of accompanying soloists and groups; ensemble playing; playing by ear. Frequent solo and ensemble performances in class. Intended for piano teachers or classroom music teachers. Strongly Recommended: MUS 21B with a minimum grade of C. 54 hours laboratory. Family: Music Piano Pedagogy. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MUS 29 INDEPENDENT STUDY, MUSIC 0.5-2 UNITS

Supervised study in the area of Music. Any student interested in registering for an Independent Studies course should contact a full/part-time instructor or dean in the appropriate area. 27-108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

MUS 31 STUDY OF PIANO 1 UNIT

Development of functional piano skill. Designed for knowledge and skill of intermediate or advanced level. Prerequisite: MUS 21B with a minimum grade of C. 54 hours laboratory. Family: Music Piano. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MUS 34 MUSIC IN FILM 3 UNITS

The class traces the history and development of film music through reading, lecture and film viewing. The class studies the process of film scoring and how music and its relationship to film have changed over the last century. Class includes discussion and evaluation of different compositional styles and learning to listen critically to film scores while viewing movies. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1, C2; IGETC: 3A, 3B.

Degree Applicable, Credit Grading Option: OP

MUS 35 INTRO TO MUSIC TECHNOLOGY 3 UNITS

This course covers the following basic aspects of music technology: computer skills, software-based sequencing, synthesis, MIDI, sampling, notation, principles of sound, microphones, introduction

to digital audio, signal processing, mixers and mixing, recording principles, cables and interconnects, and audio in live performance. 54 hours lecture. Transfer: CSU; C-ID# CMUS 100 X, CMUS 130 X.

Degree Applicable, Credit Grading Option: OP

MUS 36 INTERMEDIATE MUSIC TECHNOLOGY 3 UNITS

This course is the 2nd level course in the music technology series. Topics include intermediate/advanced computer skills, software-based sequencing, synthesis, MIDI, sampling, notation, principles of sound, microphones, introduction to digital audio, signal processing, mixers and mixing, recording principles, cables and interconnects, and audio in live performance. Prerequisite: MUS 35 with a minimum grade of C. 54 hours lecture. Transfer: CSU; C-ID# CMUS 110 X, CMUS 120 X.

Degree Applicable, Credit Grading Option: OP

MUS 37 MUSIC INDUSTRY CAREER DEVELOPMENT 3 UNITS

Career opportunities and business practices in the music industry. Focus on career options and development, artist management, unions, music merchandising, music for film and digital media, and concert promotion. 54 hours lecture. Family: Music Industry. AA/AS GE: III. Transfer: CSU; C-ID# CMUS 140 X.

Degree Applicable, Credit Grading Option: OP

MUS 38 APPLIED LESSONS 1 UNIT

Individualized study of the appropriate techniques and repertoire for the specific instrument or voice being studied. The emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. Enrollment subject to a standardized audition demonstrating basic competencies in technique and musicianship in their major performance medium. Concurrent enrollment in one music theory class (MUS 8A, MUS 8B, MUS 10A or MUS 10B) and one performing ensemble (MUS 12, MUS 14, MUS 15, MUS 16, MUS 44, MUS 45, MUS 46A, MUS 46B, or MUS 48). Corequisite: MUS 8A or MUS 8B or MUS 10A or MUS 10B and MUS 12 or MUS 14 or MUS 15 or MUS 16 or MUS 44 or MUS 45 or MUS 46A or MUS 46B or MUS 48. 54 hours laboratory. AA/AS GE: III. Transfer: CSU, UC; C-ID# MUS 160.

Degree Applicable, Credit Grading Option: OP

MUS 41 INSTRUMENTAL CHAMBER MUSIC 1 UNIT

This course is an instrumental music ensemble that performs selections from the standard classical repertoire, as well as modern compositions. Students develop all aspects of instrumental performance including technique, sight-reading, intonation, rhythmic interpretation, ensemble balance, and stylistic interpretation. Musical instruments may include members of the brass, woodwind, string, percussion, and keyboard families. Enrollment by audition only. 54 hours laboratory. Transfer: CSU; C-ID# MUS 185. Number of times course may be taken for credit: 4.

Degree Applicable, Credit Grading Option: OP

MUS 44 CONCERT CHOIR 1 UNIT

This course offers an opportunity for students to study, interpret, and perform vocal ensemble music in a variety of styles. Emphasis is placed on building ensemble singing experience and techniques towards a successful audition into higher-level ensembles. Designed for students of all backgrounds and experience levels. Concurrent enrollment in MUS 6 (Basic Music Skills) is highly recommended. 54 hours laboratory. Family: Music Choir. AA/AS GE: III. Transfer: CSU, UC; C-ID# MUS 180. Number of times course may be taken for credit: 4.

Degree Applicable, Credit Grading Option: OP

MUS 45 CHAMBER CHOIR 2 UNITS

A performance-based class furthering the effective study, interpretation, and presentation of choral literature. Designed for vocalists with previous classical ensemble experience. Performs multiple times per semester. Strongly Recommended: MUS 6 with a minimum grade of C, MUS 44 with a minimum grade of C. 9 hours lecture, 81 hours laboratory. Family: Music Choir. AA/AS GE: III. Transfer: CSU, UC; C-ID# MUS 180. Number of times course may be taken for credit: 4.

Degree Applicable, Credit Grading Option: OP

MUS 46 VOCAL JAZZ ENSEMBLE 2 UNITS

An advanced performance-based class exploring jazz voice in an ensemble setting. Course emphasizes the study of a variety of jazz and pop/rock styles, overall healthy vocal technique, use of microphones and an active sound system, vocal improvisation, and overall musicianship. Singing and ensemble experience highly recommended, as the class requires strong sense of intonation, rhythm, and vocal blend. Performs multiple times per semester. Strongly Recommended: MUS 6 with a minimum grade of C, MUS 44 with a minimum grade of C. 9 hours lecture, 81 hours laboratory. Family: Music Jazz Choir. AA/AS GE: III. Transfer: CSU, UC; C-ID# MUS 180. Number of times course may be taken for credit: 4.

Degree Applicable, Credit Grading Option: OP

**MUS 47 COLLEGE PRODUCTIONS-
MUSIC 1 UNIT**

Participation in scheduled music productions. Includes music support for drama productions, college musicals, and other major performances. Enrollment is for the duration of the production, and by audition only. 54 hours laboratory. Family: Music Theater/Productions. Transfer: CSU, UC. Number of times course may be taken for credit: 4.

Enrollment Limitation: Audition Required

Degree Applicable, Credit Grading Option: OP

MUS 48 IMPROVISATION LAB 1 UNIT

This course exposes students to the fundamental concepts and skills any improviser needs to succeed in a group setting. The course is open to any instrumentalist or vocalist with no audition or experience in jazz required. The course is intended to prepare students for established advanced jazz ensembles in the department like Jazz Combos, Jazz Band, and Vocal East. Emphasis will be on group activities, independent practice, basic theory concepts, and performance. Strongly Recommended: MUS 6 with a minimum grade of C or MATH 8A with a minimum grade of C. 54 hours

laboratory. Transfer: CSU, UC; C-ID# MUS 185. Number of times course may be taken for credit: 4.

Enrollment Limitation: Audition Required

Degree Applicable, Credit Grading Option: OP

NONCREDIT AUTOMOTIVE TECHNOLOGY

The Automotive Technology Department at Las Positas College offers tuition-free, non-credit courses and two certificate programs designed to provide students with the skills needed to secure employment and/or workplace advancement in the industry. Students in the Las Positas Non-Credit Automotive Technology program work side by side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Programs of Study

Certificates of Completion:

- Automotive Advanced Smog Technician
- Automotive Basic
- Automotive Chassis
- Automotive Mechanical
- Automotive Smog
- Automotive Summer Camp
- Concepts of Automotive Body Systems
- Concepts of Automotive Chassis
- Concepts of Automotive Know How
- Concepts of Automotive Mechanical
- Concepts of Automotive Powertrain

Certificate of Completion Automotive Advanced Smog Technician

About the Certificate

The Automotive Smog Technician Certificate of Achievement will provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. This program focuses on the rules and regulations of the California Smog Program and will prepare students to gain their California Smog licenses. This program's focus is on the diagnosis and repair of smog-controlled vehicles in California. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, Teaching, and Automotive Performance Personnel.

Program Outcomes

- Upon the completion of the Certificate of Completion in Automotive Advanced Smog Technician, students will be able to pass an industry standard exam.

Required Core: (945 Hours)

NAUT INTR (Automotive Service and Introduction).....	144
NAUT A1 (Engine Repair).....	144
NAUT A2 (Automatic Transmission/Transaxle).....	144
NAUT A6 (Electrical/Electronic Systems)	162
NAUT LABA (Automotive Lab)	108
NAUT L1L2 (Smog Level One and Level Two)	117
NAUT SDR (Specified Diagnostic and Repair)	126

Total Hours 945

Certificate of Completion Automotive Basic

About the Certificate

The Automotive Basic Certificate of Completion can provide the skills necessary for students to qualify as entry-level technicians. This program focuses on basics of the automobile. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include, Introductory Automotive Technician, and Automotive Parts Personnel.

Program Outcomes

- Upon completion of the Certificate of Completion in Automotive Basic, students are able to diagnose basic engine mechanical issues.
- Upon completion of the Certificate of Completion in Automotive Basic, students are able to measure engine components and compare to specifications.
- Upon completion of the Certificate of Completion in Automotive Basic, students are able to tear down, inspect and reassemble engines.

Required Core: (360 Hours)

NAUT INTR (Automotive Service and Introduction).....	144
NAUT LABA (Automotive Lab)	108
NAUT LABB (Automotive Lab Advanced).....	108

Total Hours 360

Certificate of Completion Automotive Chassis

About the Certificate

The LPC Automotive Certificate can provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel.

Program Outcomes

- Upon the completion of the Certificate of Completion in Automotive Chassis, students will be able to pass an industry standard exam.

Required Core: (846 Hours)

NAUT INTR (Automotive Service and Introduction).....	144
NAUT LABA (Automotive Lab)	108
NAUT A4 (Suspension and Steering).....	144
NAUT A5 (Brakes).....	144
NAUT A6 (Electrical/Electronic Systems)	162
NAUT A7 (Automotive Heating and Air Conditioning)	144

Total Hours 846

Certificate of Completion Automotive Mechanical

About the Certificate

The Automotive Mechanical Certificate of Completion can provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. This program focuses on the mechanical side of the automobile. Students who would like to gain employment at aftermarket shops could take this program and excel in a shop that services many types of vehicles from multiple manufacturers. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel.

Program Outcomes

- Upon the completion of the Certificate of Completion in Automotive Mechanical, students will be able to pass an industry standard exam.

Required Core: (846 Hours)

NAUT INTR (Automotive Service and Introduction).....	144
NAUT LABA (Automotive Lab)	108
NAUT A1 (Engine Repair).....	144
NAUT A2 (Automatic Transmission/Transaxle).....	144
NAUT A3 (Manual Drive Train and Axles).....	144
NAUT A6 (Electrical/Electronic Systems)	162

Total Hours **846**

Certificate of Completion Automotive Smog

About the Certificate

The Automotive Smog Certificate of Completion will provide the skills necessary for students to qualify as trained entry-level technicians, as well as for career advancement. This program focuses on the rules and regulations of the California Smog Program and will prepare student to gain their California Smog licenses. This programs focus is on the diagnosis and repair of smog controlled vehicles in California. Students work side-by-side and hands-on with industry professionals in a fully equipped and up-to-date facility.

Career Opportunities

Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel

Program Outcomes

- Upon completion of the Certificate of Completion in Automotive Smog, students are able to apply and take the California Smog test.
- Upon completion of the Certificate of Completion in Automotive Smog, students are able to diagnose emission issues.
- Upon completion of the Certificate of Completion in Automotive Smog, students are able to diagnose engine mechanical issues.

Required Core: (387 Hours)

NAUT INTR (Automotive Service and Introduction).....	144
NAUT L1L2 (Smog Level One and Level Two)	117
NAUT SDR (Specified Diagnostic and Repair)	126

Total Hours **387**

Certificate of Completion Automotive Summer Camp

About the Certificate

The LPC Automotive Summer Camp Certificate can provide the skills necessary for students to qualify as trained entry-level automotive students, as well as a competent vehicle owner. Students work side-by-side and hands-on with industry professionals in fuller equipped and up-to-date facility.

Career Opportunities

Career opportunities include Teaching, Automotive Technician, Automotive Parts Personnel, Automotive Management, Shop Owners, and Automotive Performance Personnel

Program Outcomes

- Upon the completion of Automotive Summer Camp, students will be able to pass an industry standard exam

Required Core: (44.5-68 Hours)

NAUT ASMC (Automotive Summer Camp).....	17.5-28
NAUT ASCL (Automotive Summer Camp Hands On)	27-40

Total Hours **44.5-68**

Certificate of Completion Concepts of Automotive Body Systems

About the Certificate

The Concepts of Automotive Body Systems Certificate of Completion can provide the skills necessary for students as entry-level non technician positions.

This program focuses on all of the theoretical aspects of the automobile.

Career Opportunities

Career opportunities include, Introductory Automotive Technician, and Automotive Parts Personnel.

Program Outcomes

- Upon the completion of Certificate of Completion in Concepts of Automotive Body Systems, students will be able to pass the ASE G1 exam.

Required Core: (126 Hours)

NAUT CINTR (Concepts of Automotive Service and Introduction)	36
NAUT CA6 (Concepts of Electrical/Electronic Systems).....	54
NAUT CA7 (Concepts of Automotive Heating and Air Conditioning).....	36

Total Hours **126**

Certificate of Completion Concepts of Automotive Chassis

About the Certificate

The Concepts of Automotive Chassis Certificate of Completion can provide the skills necessary for students as entry-level non technician positions. This program focuses on all of the theoretical aspects of the automobile.

Career Opportunities

Career opportunities include, Introductory Automotive Technician, and Automotive Parts Personnel.

Program Outcomes

- Upon the completion of Certificate of Completion in Concepts of Automotive Chassis, students will be able to pass the ASE G1 exam.

Required Core: (162 Hours)

NAUT CINTR (Concepts of Automotive Service and Introduction)	36
NAUT CA4 (Concepts of Suspension and Steering)	36
NAUT CA5 (Concepts of Brakes)	36
NAUT CA6 (Concepts of Electrical/Electronic Systems).....	54
Total Hours	162

Certificate of Completion Concepts of Automotive Know How

About the Certificate

The Concepts of Automotive Know How can provide the skills necessary for students to qualify as entry-level non technicians positions.

This program focuses on all of the theoretical aspects of the automobile.

Career Opportunities

Career opportunities include, Introductory Automotive Technician, and Automotive Parts Personnel.

Program Outcomes

- Upon the completion of Certificate of Completion in Concepts of Automotive Know How, students will be able to pass the ASE G1 exam.

Required Core: (396 Hours)

NAUT CINTR (Concepts of Automotive Service and Introduction)	36
NAUT CA1 (Concepts of Engine Repair).....	36
NAUT CA2 (Concepts of Automatic Transmission/Transaxle)	36
NAUT CA3 (Concepts of Manual Drive Train and Axles).....	36
NAUT CA4 (Concepts of Suspension and Steering)	36
NAUT CA5 (Concepts of Brakes).....	36
NAUT CA6 Concepts of Electrical/Electronic Systems).....	54
NAUT CA7 (Concepts of Automotive Heating and Air Conditioning).....	36
NAUT CA8 (Concepts of EEngine Performance).....	54
NAUT CA9 (Concepts of Lighth Vehicle Diesel Engines).....	36
Total Hours	396

Certificate of Completion Concepts of Automotive Mechanical

About the Certificate

The Concepts of Automotive Mechanical Certificate of Completion can provide the skills necessary for students to qualify as entry-level non technicians positions.

This program focuses on all of the theoretical aspects of the automobile.

Career Opportunities

Career opportunities include, Introductory Automotive Technician, and Automotive Parts Personnel.

Program Outcomes

- Upon the completion of Certificate of Completion in Concepts of Automotive Mechanical, students will be able to pass the ASE G1 exam.

Required Core: (180 Hours)

NAUT CINTR (Concepts of Automotive Service and Introduction)	36
NAUT CA1 (Concepts of Engine Repair).....	36
NAUT CA2 (Concepts of Automatic Transmission/Transaxle)	36
NAUT CA3 (Concepts of Manual Drive Train and Axles).....	36
NAUT CA9 (Concepts of Lighth Vehicle Diesel Engines)	36
Total Hours	180

Certificate of Completion Concepts of Automotive Powertrain

About the Certificate

The Concepts of Automotive Powertrain Certificate of Completion can provide the skills necessary for students to qualify as entry-level non technicians positions.

This program focuses on all of the theoretical aspects of the automobile.

Career Opportunities

Career opportunities include, Introductory Automotive Technician, and Automotive Parts Personnel.

Program Outcomes

- Upon the completion of Certificate of Completion in Concepts of Automotive Powertrain, students will be able to pass the ASE G1 exam.

Required Core: (252 Hours)

NAUT CINTR (Concepts of Automotive Service and Introduction)	36
NAUT CA1 (Concepts of Engine Repair).....	36
NAUT CA2 (Concepts of Automatic Transmission/Transaxle)	36
NAUT CA6 Concepts of Electrical/Electronic Systems).....	54
NAUT CA8 (Concepts of EEngine Performance).....	54
NAUT CA9 (Concepts of Lighth Vehicle Diesel Engines)	36
Total Hours	252

Noncredit Automotive Technology Courses (NAUT)

NAUT A1 ENGINE REPAIR 0 UNITS

An in depth study of engines: mechanical, measurement, and assembly. A study of the above mentioned components including theory, teardown, evaluate, qualifying, and rebuilding. This class' emphasis is on engines. Students are encouraged to enroll in Automotive Lab concurrently. Prerequisite: AUTO with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 144 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT A2 AUTOMATIC TRANSMISSION/ TRANSAXLE 0 UNITS

An in depth study of engine, transmission, transaxles: mechanical, measurement, and assembly. An in-depth study of the above mentioned components including theory, teardown, evaluate, qualifying, and rebuilding. Students are encouraged to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO with a minimum grade of C (May be taken concurrently). 144 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT A3 MANUAL DRIVE TRAIN AND AXLES 0 UNITS

An in-depth study of rear axle, front axle, and transfer cases: mechanical, measurement, and assembly. Including theory, teardown, qualifying, and rebuilding. Students are encouraged to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 144 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT A4 SUSPENSION AND STEERING 0 UNITS

Diagnosis, evaluation, testing, adjustment, alignment and repair of steering and suspension systems. Including all common automotive steering and suspension systems both car and truck. Future systems will also be covered. Students are strongly recommended to enroll in Automotive Lab concurrently. Prerequisite AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR - with a minimum grade of C (May be taken concurrently) or AUTO with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 144 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT A5 BRAKES 0 UNITS

Diagnosis, evaluation, inspection, adjustment, and repair of braking, antilock braking systems, traction control and related devices. Class will involve California State law regarding brake and safety inspections. Includes the material on the California Brake Adjuster's Licensing Examination. Students are strongly recommended to enroll in Automotive Lab concurrently. Prerequisite AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 144 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT A6 ELECTRICAL/ELECTRONIC SYSTEMS 0 UNITS

Automotive electrical/electronic systems, including electrical circuits, Ohm's Law, battery, starting, charging, ignition, fuel, accessories, brakes, chassis, suspension, steering, HVAC, and wiring systems. Emphasis on diagnosis of electrical troubles, assembly, repair of components, and diagnostic equipment usage. Students are strongly recommended to enroll in Automotive Lab concurrently. Prerequisite AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ - with a minimum grade of C (May be taken concurrently). 144 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT A7 AUTOMOTIVE HEATING AND AIR CONDITIONING 0 UNITS

Diagnosing, evaluation, testing, adjustment, and repair of heating, ventilation and air conditioning (HVAC). Includes heat and energy, psychometrics, air flow, refrigerant recycling, equipment and controls. Student will be prepared to pass a nationally recognized HVAC certificate program, required by all California HVAC repair shops. Students are strongly recommended to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR - with a minimum grade of C (May be taken concurrently) or NAUT INTR with a minimum grade of C (May be taken concurrently) or AUTO with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 144 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT ASCL AUTOMOTIVE SUMMER CAMP HANDS ON 0 UNITS

This is the hands-on lab section of the Automotive Summer Camp. To enroll in this class you must first be enrolled in Automotive Summer Camp (ASMC). Have you ever wanted to know more about your car but do not have time to take an 18-week course? Have you ever wanted to change your own oil? Learn what the cryptic code on the tire means? Learn general knowledge about cars? This is the class for you! From maintenance to oil changes to tires to smog to hybrids to jump starting. Speaking of jump starting, let's start! Corequisite: NAUT ASMC. 27-40 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT ASMC AUTOMOTIVE SUMMER CAMP 0 UNITS

Have you ever wanted to know more about your car but do not have time to take an 18-week course? Have you ever wanted to change your own oil? Learn what the cryptic code on the tire means? Learn general knowledge about cars? This is the class for you! From maintenance to oil changes to tires to smog to hybrids to jump starting. Speaking of jump starting, let's start! There is a lab section that follows the lecture section for students to gain hands-on experience. 17.5-28 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT CA1 CONCEPTS OF ENGINE REPAIR 0 UNITS

This class is lecture only and non-credit. An in depth study of engines: mechanical, measurement, and assembly. A study of the above mentioned components including theory, teardown, evaluate, qualifying, and rebuilding. This class' emphasis is on engines. 36 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT CA2 CONCEPTS OF AUTOMATIC TRANSMISSION/TRANSAXLE 0 UNITS

This class is lecture only and non-credit. An in depth study of engine, transmission, transaxles: mechanical, measurement, and assembly. An in-depth study of the above mentioned components including theory, teardown, evaluate, qualifying, and rebuilding. 36 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT CA3 CONCEPTS OF MANUAL DRIVE TRAIN AND AXLES 0 UNITS

This class is lecture only and non-credit. An in-depth study of rear axle, front axle, and transfer cases: mechanical, measurement, and assembly. Including theory, teardown, qualifying, and rebuilding. 36 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT CA4 CONCEPTS OF SUSPENSION AND STEERING 0 UNITS

This class is lecture only and non-credit. Diagnosis, evaluation, testing, adjustment, alignment and repair of steering and suspension systems. Including all common automotive steering and suspension systems both car and truck. Future systems will also be covered. 36 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT CA5 CONCEPTS OF BRAKES 0 UNITS

This class is lecture only and non-credit. Diagnosis, evaluation, inspection, adjustment, and repair of braking, antilock braking systems, traction control and related devices. Class will involve California State law regarding brake and safety inspections. Includes the material on the California Brake Adjuster's Licensing Examination. 36 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT CA6 CONCEPTS OF ELECTRICAL/ 0 UNITS

ELECTRONIC SYSTEMS

This class is lecture only and non-credit. Automotive electrical/ electronic systems, including electrical circuits, Ohm's Law, battery, starting, charging, ignition, fuel, accessories, brakes, chassis, suspension, steering, HVAC, and wiring systems. Emphasis on diagnosis of electrical troubles, assembly, repair of components, and diagnostic equipment usage. 54 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT CA7 CONCEPTS OF AUTOMOTIVE HEATING AND AIR CONDITIONING 0 UNITS

This class is lecture only and non-credit. Diagnosing, evaluation, testing, adjustment, and repair of heating, ventilation and air conditioning (HVAC). Includes heat and energy, psychometrics, air flow, refrigerant recycling, equipment and controls. Student will be prepared to pass a nationally recognized HVAC certificate program, required by all California HVAC repair shops. 36 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT CA8 CONCEPTS OF ENGINE PERFORMANCE 0 UNITS

This class is lecture only and non-credit. Diagnosing, evaluation, testing, adjustment, and repair of heating, ventilation and air conditioning (HVAC). Includes heat and energy, psychometrics, air flow, refrigerant recycling, equipment and controls. Student will be prepared to pass a nationally recognized HVAC certificate program, required by all California HVAC repair shops. 36 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT CA9 CONCEPTS OF LIGHT VEHICLE DIESEL ENGINES 0 UNITS

This class is lecture only and non-credit. An in-depth study of diesel engines: mechanical, measurement, and assembly. A study of the above mentioned components including theory, teardown, evaluate, qualifying, and rebuilding. Diesel engine performance including emissions, turbos, exhaust and intake systems. This class's emphasis is on diesel engines and diesel engine performance/emissions. 36 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NAUT CINTR CONCEPTS OF AUTOMOTIVE SERVICE AND INTRODUCTION 0 UNITS

This class is lecture only and non-credit. Bumper-to-Bumper Automotive Knowledge. Starting with hazardous waste handling, tool identification, maintenance and lubrication, moving into engine mechanical, emissions controls, suspension systems, air conditioning, airbags and safety, transmissions, axles, and finishing off with the future of the automotive industry. This is an introductory class for people who want to know more about their vehicle. 36 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NAUT INTR AUTOMOTIVE SERVICE AND INTRODUCTION 0 UNITS

Bumper-to-Bumper Automotive Knowledge. Starting with hazardous waste handling, tool identification, maintenance and lubrication, moving into engine mechanical, emissions controls, suspension

systems, air conditioning, airbags and safety, transmissions, axles, and finishing off with the future of the automotive industry. This is an introductory class for people who want to know more about their vehicle or who are planning an automotive career. 144 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NAUT L1L2 SMOG LEVEL ONE
AND LEVEL TWO 0 UNITS**

This course includes classes/modules the State of California's requires for a student/automotive technician to be prepared to take their Smog License Test. This class will include Level One and Level Two smog training only. At the end of the class students may or may not qualify for either EI or EO smog license. See www.smogcheck.ca.gov for more information. 117 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NAUT LABA AUTOMOTIVE LAB 0 UNITS

Automotive Lab is an open laboratory class for basic automotive students. This class is for students desiring to expand their hands-on experience using their own vehicle. Instructor will provide technical and supervisory support to guide students in completion of their self initiated projects. Service information via computer service manuals will be available for students to use for vehicle information and research. Prerequisite: AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO with a minimum grade of C (May be taken concurrently). 108 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NAUT LABB AUTOMOTIVE LAB
ADVANCED 0 UNITS**

Automotive Lab Advanced is an open laboratory class for advanced automotive students. This class is for students desiring to expand their hands-on experience using their own vehicle. Instructor will provide technical and supervisory support to guide students in completion of their self initiated projects. Students are expected to help others in class and be able to work without guidance. Service information via computer service manuals will be available for students to use for vehicle information and research. Class is recommended for second year students only. Prerequisite AUTO LABA with a minimum grade of C (May be taken concurrently) or NAUT LABA with a minimum grade of C (May be taken concurrently) AUTO INTR with a minimum grade of C (May be taken concurrently) or NAUT with a minimum grade of C (May be taken concurrently) or AUTO INTL with a minimum grade of C (May be taken concurrently) and AUTO INTZ with a minimum grade of C (May be taken concurrently). 108 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NAUT SDR SPECIFIED DIAGNOSTIC
AND REPAIR 0 UNITS**

This is a Bureau of Automotive Repair approved alternative to the ASE A6, A8 and L1 certification required for obtaining and maintaining smog technician licenses. This course will follow BAR guidelines for smog license prep. Student may or may not qualify for license exam after taking this class. For more information see www.smogcheck.ca.gov. 126 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NONCREDIT BUSINESS

The Business Department at Las Positas College offers tuition-free, short-term, noncredit courses design to build skills needed to succeed in careers requiring introductory and advanced business skills. Whether you would like to run your own business or enhance your current position, the courses offer valuable and practical education on leadership, customer service, and management skills. Note: This program is not intended as a substitute for any credit certificate or associate degree.

Programs of Study

Certificates of Completion:

- Customer Service
- Small Business Management

Certificate of Completion Customer Service

About the Certificate

This customer service program is a short-term (typically one year) non-credit program. It is a career technical education program designed to prepare students for workplace readiness in all levels of business. The program will help students at all levels if their career from interviewing, managing, decision making, and working with people on a daily basis. The program will also aid students in preparing for college-level courses in Business.

Career Opportunities

Employment opportunities include working in fields related to retail, customer service, marketing, sales, management, and small business. The skills taught in these classes are soft skills which have been identified from our advisory board, local employers, and Bureau of Labor Statistics as valuable and desirable. In addition to a traditional career, this will prepare students for the gig economy.

Program Outcomes

- Upon completion of the Certificate of Completion in Customer Service, students are able to demonstrate how to prioritize responsibilities in relation to deadlines/time demands.
- Upon completion of the Certificate of Completion in Customer Service, students are able to identify personal strengths and areas of improvement in relation to business roles and expertise.
- Upon completion of the Certificate of Completion in Customer Service, students are able to recognize multiple tools in improving customer satisfactions and loyalty.

Required Core: Select One (9 Hours)

NBUS 200 (Communication in the Workplace)9
 NBUS 210 (Customer Service)9

List A: Select Four (36 Hours)

NBUS 201 (Writing Skills for Managers).....9
 NBUS 202 (Attitude in the Workplace)9
 NBUS 203 (Decision Making and Problem Solving).....9
 NBUS 204 (Managing Organizational Change)9
 NBUS 205 (Team Building)9
 NBUS 206 (Time Management)9
 NBUS 207 (Conflict Resolution)9
 NBUS 208 (Stress Management in the Workplace).....9
 NBUS 209 (Values and Ethics)9

Total Hours 45



About the Certificate

This small business management program is a short-term (typically one year) non-credit program. It is a career technical education program designed to prepare students and managers of all levels in operating, managing, and growing a small business. Learning from real-life small business management cases and projects, you'll develop the business acumen and technical expertise needed to launch a new enterprise, take over an existing business, or be the one employee who can make a difference to the future of the company. The program will also aid students in preparing for college-level courses in Business.

Career Opportunities

Students will be prepared to launch new enterprises, assume responsibility for existing businesses, or work as a manager in others' organizations. Additional employment opportunities include working in fields related to management, marketing, sales, operations, and entrepreneurship.

In addition to a traditional career, this will prepare students for the gig economy. It is estimated by the Department of Labor and the Small Business Administration that 80% of new jobs are initially created by small businesses.

Program Outcomes

- Upon completion of the Certificate of Completion in Small Business Management, students are able to evaluate the feasibility of success when starting a new business venture.
- Upon completion of the Certificate of Completion in Small Business Management, students are able to research and compose a business plan that can be used for planning as well as financing.
- Upon completion of the Certificate of Completion in Small Business Management, students are able to recognize the advantages and disadvantages of the various forms of business ownership relative to a business opportunity.
- Upon completion of the Certificate of Completion in Small Business Management, students are able to demonstrate the

ability to comprehend, apply, and evaluate standards of ethical behavior in various business settings.

Required Core: (18 Hours)

NBUS 212 (Developing Your Business Plan).....9
 NBUS 213 (Legal Aspects of Small Business).....9

List A: Select Three (27 Hours)

NBUS 211 (Design Thinking for the Entrepreneur).....9
 NBUS 214 (Success in the Gig Economy)9
 NBUS 200 (Communication in the Workplace)9
 NBUS 201 (Writing Skills for Managers).....9
 NBUS 202 (Attitude in the Workplace)9
 NBUS 203 (Decision Making and Problem Solving).....9
 NBUS 204 (Managing Organizational Change)9
 NBUS 205 (Team Building)9
 NBUS 206 (Time Management)9
 NBUS 207 (Conflict Resolution)9
 NBUS 208 (Stress Management in the Workplace).....9
 NBUS 209 (Values and Ethics)9
 NBUS 210 (Customer Service)9

Total Hours 45

**Noncredit Business Courses
(NBUS)**

NBUS 200 COMMUNICATION IN THE WORKPLACE 0 UNITS

This course introduces the key elements for communication in the professional workplace, and is beneficial for students seeking to improve their interpersonal communication skills. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 201 WRITING SKILLS FOR MANAGERS 0 UNITS

This course is designed to provide students with the skills necessary to effectively write various business documents. This course is beneficial for students seeking to improve their written communication skills in the workplace. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 202 ATTITUDE IN THE WORKPLACE 0 UNITS

This course introduces the key elements for attitude in the professional workplace. This course is beneficial for students seeking to improve their ability to communicate a positive attitude while at work. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 203 DECISION MAKING AND PROBLEM SOLVING 0 UNITS

This noncredit course introduces the key elements for decision making and problem solving in the professional workplace. This course is beneficial for students seeking to improve their decision

making and problem solving skills. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 204 MANAGING ORGANIZATIONAL CHANGE 0 UNITS

This noncredit course introduces the key elements for managing organizational change in the professional workplace. This course is beneficial for students seeking to improve their understanding of how to manage organizational change. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 205 TEAM BUILDING 0 UNITS

This course is designed to provide students with an understanding of how teams work together, and common problems teams encounter and how to solve them. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 206 TIME MANAGEMENT 0 UNITS

This course is designed to introduce students to time management principles and specific tools that assist in making the most efficient use of time. This course is beneficial for students seeking to improve their time management skills. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 207 CONFLICT RESOLUTION 0 UNITS

This course is designed to introduce students to the meaning of conflict, the causes of conflict, and strategies for resolving interpersonal conflict. This course is beneficial for students seeking to improve their conflict resolution skills. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 208 STRESS MANAGEMENT IN THE WORKPLACE 0 UNITS

This course is designed to acquaint students with key elements of stress management in the workplace. This course is beneficial for students seeking to improve their skills in recognizing and managing stress. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 209 VALUES AND ETHICS 0 UNITS

This course is designed to acquaint students with the importance of values and ethics in the workplace. This course is beneficial for students seeking to improve skills in interpreting how values influence actions and evaluating the impact of ethical behavior. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 210 CUSTOMER SERVICE 0 UNITS

This noncredit course covers key skills and attitudes necessary to effectively meet the customer's need and teaches students best practices for the importance of values and ethics in the workplace. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 211 DESIGN THINKING FOR THE ENTREPRENEUR 0 UNITS

This course introduces students to the decision making process called Design Thinking. Design Thinking emphasizes deep user understanding, intentional iteration and a focus on possibilities as a way to improve people's lives and enhance and create value for stakeholders. Design Thinking draws on methods from engineering and design and combines them with ideas from the arts, social services and the business world. Emphasis will be placed on experiential learning, identifying specific behaviors and skills that enable design thinkers to meet customer demands in all types of organizations including for-profits, non-profits, healthcare, arts and education. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 212 DEVELOPING YOUR BUSINESS PLAN 0 UNITS

This is a course designed for students considering starting their own businesses. All major elements of a business plan will be covered, including financial statements, marketing, and competitive strategies. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 213 LEGAL ASPECTS OF SMALL BUSINESS 0 UNITS

This course is designed for students interested in establishing a business and who need information about the legal issues involved. Legal aspects such as forms of ownership, licensing, and taxes will be covered. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 214 SUCCESS IN THE GIG ECONOMY 0 UNITS

This course provides students with a hands-on class experience in starting a side business that can add to a student's income stream or grow into a full-time business. Students will learn to: identify income producing opportunities, develop business and promotion plans, and fund, launch, refine their business and make a profit. Emphasis will be placed on experiential learning, taking action and the iterative refinement process needed to start a new business. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 233 PERSONAL FINANCIAL MANAGEMENT AND PLANNING 0 UNITS

Designed to provide students with the practical, hands-on means of successfully managing their personal finances and of becoming financially empowered upon course completion. Among other topics, the course will cover the basics of credit management, assessing insurance needs, budgeting, personal financial statement preparation, investment and savings accounts, management of taxes, retirement accounts, will preparation and estate planning. 54 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NONCREDIT COMPUTER INFORMATION SYSTEMS

The Computer Information Systems Department at Las Positas College offers tuition-free, noncredit courses that provide a pathway into the Computer Information Systems and Computer Networking Technology credit programs specifically in the fields of cybersecurity and networking technologies.

Noncredit Computer Information Systems Courses (NCIS)

NCIS 201 CYBERSECURITY CAMP 0 UNITS

This course will introduce the novice to cybersecurity career opportunities, cyber ethics, online safety, and cyber threats. Students will be introduced to cybersecurity principles, virtual machines, basic Windows and Linux administration security policies, fundamental CISCO network routing and CISCO packet tracer. As a culminating activity students will compete by analyzing and fixing vulnerabilities on the provided Windows and Linux images. 40 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP/SP

NCIS 201B CYBERSECURITY ADVANCED SKILLS 0 UNITS

This course will build upon the intro to cybersecurity camp. Review cybersecurity career opportunities, cyber ethics, online safety, and cyber threats. Students will build upon cybersecurity principles, virtual machines, basic Windows and Linux administration security policies, fundamental CISCO network routing and CISCO packet tracer. As a culminating activity students will compete by analyzing and fixing vulnerabilities on the provided Windows and Linux images. 40 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP/SP

NCIS 202 CYBERSECURITY COMPETITION PREP 0 UNITS

This course prepares students to participate in cyber security competitions (CyberPatriot, National Cyber League, etc). Topics include an overview of cyber competitions, virtual machines, Linux operating systems and administration, Windows operating systems and administration, CISCO networking, and packet tracer. Through business scenarios, students will create checklists of potential vulnerabilities and work in teams to secure networks and sensitive data. 30 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP/SP

NCIS 203 CYBERSECURITY 0 UNITS

COMPETITION

This course allows students to participate in cyber security competitions (CyberPatriot, National Cyber League, etc). Topics include an overview of cyber competitions, virtual machines, Linux operating systems and administration, Windows operating systems and administration, CISCO networking, and packet tracer. Through business scenarios, students will create checklists of potential vulnerabilities and work in teams to secure networks and sensitive data. 30 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP/SP

NCIS 210 ORIENTATION TO IT CAREERS 0 UNITS

This course enables students to analyze the field of information technology (IT). The class will include a survey of the IT professions, industry certifications, employment skills, definitions, associations, current issues, salaries, and self-assessment survey of skills and competencies. Students will be able to identify an IT program pathway at LPC. 18 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP/SP

NCIS 244 IT FUNDAMENTALS + 0 UNITS

Information Technology Fundamentals+ (ITF+) is the essential qualification for exploring a career in IT. This course will cover the topics of the CompTIA IT Fundamentals certification, which validates the knowledge and skills required to identify and explain the basics of computing hardware and software, IT infrastructure, applications and software, software development concepts, database fundamentals, and security. Technologies and trends of the IT industry and the exploration of IT careers. This course will prepare you to take the CompTIA certification exam. 36 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NONCREDIT ENGLISH

The English Department offers a tuition-free, noncredit English course that provides secondary-level reading and writing skills to prepare students for further college coursework, including in career and technical programs, and to support other academic, personal, and professional goals.

Noncredit English Courses (NENG)

NENG 204 INTEGRATED READING AND WRITING II 0 UNITS

An accelerated one-semester preparation in English for success in college. Integrates reading, critical thinking and writing assignments, using materials that present a variety of perspectives from across the curriculum. 108 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NONCREDIT ENGLISH AS A SECOND LANGUAGE

The ESL Department at Las Positas College offers tuition-free, noncredit courses designed to help students become proficient in English. Noncredit English as a Second Language courses lead to a College Grammar Pathway Certificate of Competency, and/or a College Reading and Writing Pathway Certificate of Competency. Most classes in the ESL Department are mirrored and can be taken for credit or noncredit.

Programs of Study

Certificates of Competency:

- ESL College Grammar Pathway
- ESL College Reading and Writing Pathway

Certificates of Completion:

- Advanced ESL Communication Studies

Certificate of Competency ESL College Grammar Pathway

About the Certificate

The ESL College Grammar Pathway provides a supportive, noncredit pathway into transfer level ESL courses. The curriculum emphasizes rigorous study of the foundational English language skill of grammar with a special focus on application in reading and writing. Students have the opportunity to take a sequence of four courses, from beginning to intermediate, which will help in developing vocabulary, reading, writing, speaking and listening skills. Students who successfully complete the pathway will be able to enroll in UC and CSU transfer level ESL classes, and will be better prepared to pursue their educational goals, including language learning, transfer, Associate's Degree, certificate, or CTE.

Program Outcomes

- Upon completion of the Certificate of Competency in ESL College Grammar Pathway, students are able to use foundational grammar, including all verb tenses and types of sentences.
- Upon completion of the Certificate of Competency in ESL College Grammar Pathway, students are able to use academic vocabulary, including parts of speech, at the intermediate level.
- Upon completion of the Certificate of Competency in ESL College Grammar Pathway, students are able to analyze grammatical content in written discourse for comprehension.

- Upon completion of the Certificate of Competency in ESL College Grammar Pathway, students are able to apply grammatical concepts in writing.
- Upon completion of the Certificate of Competency in ESL College Grammar Pathway, students are able to matriculate into credit, transfer-level ESL courses.

Required Core: Select One or More (54-162 Hours)

NESL 230A (Beginning Grammar for Reading and Writing)	54
NESL 230B (High-Beginning Grammar for Reading and Writing).....	54
NESL 220A (Intermediate Grammar for Reading and Writing).....	54

Capstone: (54 Hours)

NESL 220B (High-Intermediate Grammar for Reading and Writing).....	54
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Total Hours **108-216**

Certificate of Competency ESL College Reading and Writing Pathway

About the Certificate

The ESL College Reading and Writing Pathway provides a supportive, noncredit pathway into transfer level ESL courses. Students have the opportunity to take a sequence of four courses, from beginning to intermediate, which will focus on reading and writing, grammar, vocabulary development, and speaking and listening skills. The curriculum emphasizes rigorous study of the foundational English language skills of reading, writing, and grammar. Students who successfully complete the pathway will be able to enroll in UC and CSU transfer level ESL classes, and will be better prepared to pursue their educational goals, including language learning, transfer, Associate's Degree, certificate, or CTE.

Program Outcomes

- Upon completion of the Certificate of Competency in ESL College Reading and Writing Pathway, students are able to comprehend a variety of authentic reading materials at the intermediate level.
- Upon completion of the Certificate of Competency in ESL College Reading and Writing Pathway, students are able to write paragraphs and essays with control of organization, development and language at the intermediate level.
- Upon completion of the Certificate of Competency in ESL College Reading and Writing Pathway, students are able to use foundational grammar, including all verb tenses and types of sentences.
- Upon completion of the Certificate of Competency in ESL College Reading and Writing Pathway, students are able to utilize a variety of study skills and strategies for language acquisition.
- Upon completion of the Certificate of Competency in ESL

College Reading and Writing Pathway, students are able to matriculate into credit, transfer-level ESL courses.

Required Core: Select One or More (126-378 Hours)

NESL 231A (Beginning Reading and Writing).....	126
NESL 231B (High-Beginning Reading and Writing)	126
NESL 221A (Intermediate Reading and Writing)	126

Capstone: (126 Hours)

NESL 221B (High-Intermediate Reading and Writing).....	126
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Total Hours **252-504**

**Certificate of Completion
Advanced ESL
Communication Studies**

About the Certificate

The ESL Communication Studies Program is a short-term (2-course) non-credit program. This program offers a bridge to continuing academic studies and transfer level CMST courses. The program will also aid students in preparing for workforce entry or advancement. Students who complete this program will be able to implement essential communication skills such as vocal variety, eye contact, stance, and awareness of cultural norms. Students will receive one-on-one coaching from instructors and will complete the program with strategies to continue building confidence and effectiveness in front of any audience.

Career Opportunities

Employment opportunities include jobs which require effective and assertive communication such as customer service, hospitality, sales, and office management.

Program Outcomes

- Upon completion of the Certificate of Completion in Advanced ESL Communication Studies, students are able to establish an effective and assertive presence in formal speaking situations such as academic courses, job interviews, professional meetings, and presentations.
- Upon completion of the Certificate of Completion in Advanced ESL Communication Studies, students are able to give responses using appropriate and concise rhetorical frames in common formal speaking situations, such as academic courses, job interviews, professional meetings, and presentations.
- Upon completion of the Certificate of Completion in Advanced ESL Communication Studies, students are able to demonstrate an awareness of cultural norms appropriate to specific public speaking situations.

Required Core: (8 Hours)

NESL 240 (Public Speaking Delivery for Advanced ESL (Communicate With Confidence))	4
NESL 241 (Public Speaking Structure for Advanced	

ESL (Find Your Voice)..... 4

Total Hours **8**

Noncredit English as a Second Language Courses (NESL)

**NESL 220A INTERMEDIATE GRAMMAR 0 UNITS
FOR READING AND WRITING**

This is the first semester of a one-year course in intermediate grammar for academic writing and reading designed to enable students to identify, comprehend, and use linguistic forms accurately, meaningfully and appropriately in reading and writing. The course focuses on types of sentences, clauses, and phrases, word order, verb forms, verb tenses, and on the connection between vocabulary and grammar. Students are advised to enroll concurrently in NESL 220A and NESL 221A, and ESL 123 or ESL 126. Prerequisite: NESL 230B with a minimum grade of P or ESL 130B with a minimum grade of P or placement through the ESL assessment process. 54 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

**NESL 220B HIGH-INTERMEDIATE 0 UNITS
GRAMMAR FOR READING
AND WRITING**

This is the second semester of a one-year course in intermediate grammar for academic writing and reading designed to enable students to use linguistic forms accurately, meaningfully and appropriately in written expression. The course focuses on types of sentences, clauses, phrases, word order, verb forms, verb tenses, and on the connection between vocabulary and grammar. This course also emphasizes analyzing grammar and meaning and detecting and correcting grammatical errors. Students are advised to enroll concurrently in NESL 220B and NESL 221B, and ESL 123 or ESL 126. Prerequisite: NESL 220A with a minimum grade of P or ESL 120A with a minimum grade of P or placement through the ESL assessment process. 54 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

**NESL 221A INTERMEDIATE READING 0 UNITS
AND WRITING**

This is the first semester of a one-year course in intermediate academic writing and reading. Classes will focus on writing sentences, paragraphs and compositions, developing strategies for reading comprehension and flexibility, on interactive reading, and on academic vocabulary development. Students will develop cultural understanding, vocabulary, and fluency through a variety of academic writing and reading tasks. Students are advised to enroll concurrently in NESL 220A and NESL 221A, and ESL 123 or ESL 126. Prerequisite: NESL 231B with a minimum grade of P or ESL 131B with a minimum grade of P or placement through ESL assessment process. 126 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

**NESL 221B HIGH-INTERMEDIATE 0 UNITS
READING AND WRITING**

This is the second semester of a one-year course in intermediate

academic writing and reading. Classes will focus on writing sentences, paragraphs and compositions, developing strategies for reading comprehension and flexibility, on interactive reading, and academic vocabulary development. Students will develop cultural understanding and fluency through a variety of academic writing and reading tasks. Students are advised to enroll concurrently in NESL 221B and NESL 220B, and ESL 123 or ESL 126. Prerequisite: NESL 221A with a minimum grade of P or ESL 121A with a minimum grade of P or placement through ESL assessment process. 126 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

**NESL 230A BEGINNING GRAMMAR 0 UNITS
FOR READING AND WRITING**

This is the first semester of a one-year course in beginning grammar for academic purposes designed to enable students to understand and use English accurately, meaningfully and appropriately. The course focuses on the connection between vocabulary and grammar, simple and compound sentences, phrases, verb forms, and verb tenses, especially simple present, simple past, and present progressive. Students are advised to enroll concurrently in NESL 230A and NESL 231A, and ESL 133 or ESL 136. Strongly Recommended: Placement through the ESL assessment process. 54 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

**NESL 230B HIGH-BEGINNING GRAMMAR 0 UNITS
FOR READING AND WRITING**

This is the second semester of a one-year course in beginning grammar for academic purposes designed to enable students to identify and use linguistic forms accurately, meaningfully and appropriately in written expression. The course focuses on simple and compound sentences, word order, verb tenses: simple present, past, and future as well as present and past progressive, verb forms, modals, phrases, and vocabulary development. Students are advised to enroll concurrently in NESL 230B, NESL 231B, and ESL 133 or ESL 136. Prerequisite NESL 230A with a minimum grade of P or ESL 130A with a minimum grade of P or placement through the ESL assessment process. 54 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

**NESL 231A BEGINNING READING 0 UNITS
AND WRITING**

This is the first semester of a one-year course in beginning academic writing and reading. Classes will focus on writing simple and compound sentences in short paragraphs, on developing strategies for increasing reading comprehension and flexibility, on interactive reading, and on developing academic vocabulary. Students will develop cultural understanding and fluency through a variety of writing and reading tasks. Students are advised to enroll concurrently in NESL 231A and NESL 230A, and ESL 133 or ESL 136. Strongly Recommended: Appropriate skill level demonstrated through the ESL assessment process. 126 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

**NESL 231B HIGH-BEGINNING READING 0 UNITS
AND WRITING**

This is the second semester of a one-year course in beginning

academic writing and reading. Classes will focus on writing simple, compound, and complex sentences in structured paragraphs, on developing strategies for increasing reading comprehension and flexibility, on interactive reading, and on developing academic vocabulary. Students will develop cultural understanding and fluency through a variety of writing and reading tasks. Students are advised to enroll concurrently in NESL 231B and NESL 230B, and ESL 133 or ESL 136. Prerequisite: NESL 231A with a minimum grade of P or ESL 131A with a minimum grade of P or Placement through ESL assessment process. 126 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

**NESL 240 PUBLIC SPEAKING DELIVERY 0 UNITS
FOR ADVANCED ESL
(COMMUNICATE WITH CONFIDENCE)**

A comprehensive introduction to the concepts of public speaking delivery skills used in academic and work settings. Covers key skills of eye contact, gestures, stance, and vocal variety. Classes will be performance based with intensive practice and individual coaching. Prerequisite: ESL 121A with a minimum grade of P or NESL 221A with a minimum grade of P or ESL 120A with a minimum grade of P or NESL 220A with a minimum grade of P. 4 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

**NESL 241 PUBLIC SPEAKING 0 UNITS
STRUCTURE FOR ADVANCED
ESL (FIND YOUR VOICE)**

A comprehensive introduction to structure in public speaking used in academic and work settings. Covers key skills of culturally appropriate interjection, concise response to questions, and assertive presence. Classes will be performance based with intensive practice and individual coaching. Prerequisite: ESL 121A with a minimum grade of P or NESL 221A with a minimum grade of P or ESL 120A with a minimum grade of P or NESL 220A with a minimum grade of P. 4 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NONCREDIT HORTICULTURE

The Horticulture Department at Las Positas College offers short-term, tuition-free, noncredit courses and a skills program designed to provide students both educational and vocational opportunities. A certificate will not only validate participation in the program, but it will also enhance the opportunities to secure gainful entry-level employment. The program is open to all and specifically designed for students that have difficulty in a traditional classroom setting.

Programs of Study

Certificates of Completion:

- Horticulture

Certificate of Completion Horticulture

About the Certificate

This Horticulture program is a short-term (typically one year) noncredit program. It is a career technical education program designed to prepare students for work in entry level horticultural fields, such as nursery, garden center, or landscape maintenance employment. The program will also aid students in preparing for college level courses in Horticulture.

Career Opportunities

Employment opportunities include working in fields related to retail nurseries and garden centers, wholesale nurseries or plant growers, landscape maintenance with either landscape contractors or various public agencies, interior plantscaping and plant rentals, and urban agriculture.

Program Outcomes

- Upon completion of the Certificate of Completion in Horticulture, students are able to demonstrate a basic understanding of the field of horticulture and possible career opportunities.
- Upon completion of the Certificate of Completion in Horticulture, students are able to identify plants and be able to select their proper care and maintenance.
- Upon completion of the Certificate of Completion in Horticulture, students are able to demonstrate an understanding of the maintenance requirements for trees, vines, shrubs, perennials, annuals, and turf.
- Upon completion of the Certificate of Completion in Horticulture, students are able to demonstrate an understanding of propagation of plants by seed and vegetative cuttings.

Required Core: (128 Hours)

NHRT 201 (Fundamentals of Horticulture).....	32
NHRT 202 (Landscape and Garden Maintenance)	32
NHRT 203 (Nursery and Garden Center Practices)	32
NHRT 204 (Landscape and Garden Planning)	32

Total Hours 128

Noncredit Horticulture Courses (NHRT)

NHRT 201 FUNDAMENTALS OF HORTICULTURE	0 UNITS
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This is an eight week short-term vocational horticulture course with lessons and lab activities are designed for students that have difficulty in a traditional classroom setting. Students will learn basic horticultural skills used in landscape, nursery, organic garden, and greenhouse settings. Safety training will be incorporated throughout

the course. 32 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NHRT 202 LANDSCAPE AND GARDEN MAINTENANCE	0 UNITS
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This is an eight week short-term vocational horticulture course with lessons and lab activities are designed for students that have difficulty in a traditional classroom setting. Students will demonstrate basic skills and safety procedures used in lawn maintenance, tree and shrub pruning, basic irrigation repair, and organic weed control strategies. 32 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NHRT 203 NURSERY AND GARDEN CENTER PRACTICES	0 UNITS
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This is an eight week short-term vocational horticulture course with lessons and lab activities are designed for students that have difficulty in a traditional classroom setting. Students will demonstrate basic skills used in plant identification, nursery and garden center operations, plant propagation, and sales presentation. 32 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NHRT 204 LANDSCAPE AND GARDEN PLANNING	0 UNITS
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This is an eight week short-term vocational horticulture course with lessons and lab activities are designed for students that have difficulty in a traditional classroom setting. Students will visit examples of well-planned gardens, recognize and implement a simple garden plan, and participate in the marketing of garden plants to fulfill landscape and garden goals. 32 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NONCREDIT LIBRARY STUDIES

The Library Studies department at Las Positas College offers short-term, tuition-free, non-credit courses and programs designed to equip students with fundamental research skills, enabling their success in college classes and career settings. In particular, these classes teach students how to find, evaluate, and use information from print, the Internet, and other online resources. Students will gain basic research skills to prepare them for work in entry-level research fields and college-level courses in research-intensive fields.

Programs of Study

Certificates of Completion:

- Basic Research Skills

Certificate of Completion Basic Research Skills

About the Certificate

This Library program is a short-term (typically one year) non-credit program. It is a career technical education program designed to prepare students for work in entry-level research fields, such as research assistant, research associate, or legal research employment. The program will also aid students in preparing for college-level courses in research-intensive fields such as science, psychology, health, sociology and more.

Career Opportunities

Employment opportunities include working in fields related to legal offices, marketing and consumer research, and journalism.

Program Outcomes

- Upon completion of the Certificate in Basic Research Skills, students are able to develop research plans compatible with academic and workplace contexts.
- Upon completion of the Certificate in Basic Research Skills, students are able to effectively work with sources appropriate for academic and workplace research needs.
- Upon completion of the Certificate in Basic Research Skills, students are able to ethically use information for a purpose in academic and workplace contexts.

Required Core: Select One or Two (72-180 Hours)

NLIB 201 (Getting Started with Research).....	3
NLIB 202 (Gathering Information)	3
NLIB 203 (Evaluating Information)	3
NLIB 204 (Using Information).....	3

Total Hours 12

Noncredit Library Studies (NLIB)

NLIB 201 GETTING STARTED WITH RESEARCH 0 UNITS

Introduction to characteristics of academic and workplace research, the research process, and libraries. Familiarizes students with physical and online library resources; including availability, organization, and formats. Students will gain confidence to create a research strategy and to seek help when needed. 3 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NLIB 202 GATHERING INFORMATION 0 UNITS

Introduction to gathering information used in academic and workplace research. Familiarizes students with characteristics and types of information used to research; including primary and secondary research. Students will gain confidence with research terminology and to seek help when needed. Strongly Recommended: NLIB 201. 3 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NLIB 203 EVALUATING INFORMATION 0 UNITS

Introduction to evaluating information used in academic and workplace research. Familiarizes students with selecting suitable sources for academic and workplace research through examinations of source reliability, validity, accuracy, authority, timeliness, and objectivity. Students will gain confidence with research terminology and to seek help when needed. Strongly Recommended: NLIB 201, NLIB 202. 3 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NLIB 204 USING INFORMATION 0 UNITS

Introduction to using information for academic and workplace research. Familiarizes students with the organization, presentation, and ethical use of information in academic and workplace contexts. Students will gain confidence with research terminology and to seek help when needed. Strongly Recommended: NLIB 201, NLIB 202, NLIB 203. 3 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NONCREDIT MATHEMATICS

The Mathematics Department at Las Positas College offers a wide range of tuition-free, noncredit courses and programs designed to help students be successful in mathematics, from student learning support to being a math tutor. Course offerings include sections from our award-winning Math Jam program, foundational math classes in Prealgebra and Algebra, and our new concurrent support courses. Students interested in developing their tutoring skills can take training courses in our Math Jam mode. Most classes are mirrored in the math department and can be taken for noncredit or credit.

Programs of Study

Certificates of Competency:

- College Mathematics Pathway
- College Mathematics Support
- Foundational Mathematics Pathway

Certificates of Completion:

- Math Jam Tutor Pathway

Certificate of Competency College Mathematics Pathway

About the Certificate

The Math Course Pathway to an Associate's Degree Program is a noncredit pathway for students to develop the mathematical skills necessary at Las Positas to earn an Associate's (AA/AS). Embedded

are essential study and life skills to help each student succeed in credit math courses and beyond. Students can then choose a capstone noncredit intermediate algebra level course based on their field of interest. Noncredit Intermediate Algebra for SLAM (Statistics or Liberal Arts Math) or Intermediate Algebra for BSTEM (Business, Science, Technology, Engineering or Mathematics) continues to offer students rigorous, holistic supports during the semester. Successful students may petition to get credit for the intermediate algebra course of their choice, and hence satisfy the math requirement for an Associate's Degree. Research at our college and similar community colleges have shown that supports such as these have a huge impact on student retention and success rates.

Program Outcomes

- Upon completion of the Certificate of Competency in College Mathematics Pathway, students are able to use symbolic, graphical, numerical, and written representations of mathematical ideas.
- Upon completion of the Certificate of Competency in College Mathematics Pathway, students are able to learn mathematics through modeling real-world situations.
- Upon completion of the Certificate of Competency in College Mathematics Pathway, students are able to read, write, listen to, and speak mathematics with understanding.
- Upon completion of the Certificate of Competency in College Mathematics Pathway, students are able to use appropriate technology to enhance their mathematical thinking and understanding, solve mathematical problems, and judge the reasonableness of their results.
- Upon completion of the Certificate of Competency in College Mathematics Pathway, students are able to use mathematical reasoning and, when appropriate, a general problem solving process to solve problems

Required Core: Select One or Two (72-180 Hours)

NMAT 207 (Pre-Algebra)	108
NMAT 210 (Elementary Algebra)	72

Capstone: Select One (90-108 Hours)

NMAT 250 (Intermediate Algebra for SLAM)	108
NMAT 255 (Intermediate Algebra for BSTEM)	90

Total Hours 162-288

Certificate of Competency College Mathematics Support

About the Certificate

College Mathematics Support is a noncredit program for all Las Positas College students. This pathway is designed to offer students prior and concurrent support as they prepare for the credit transfer-level math course required to transfer. Embedded are essential study and life skills to develop each student holistically as well as rigorous learning support of prerequisite and key math concepts. Prior to starting math courses, Math Jam assists students prepare for their

target transfer-level math course required to transfer to a four-year program based on their educational goal. During the semester, concurrent support courses enable students to receive rigorous prerequisite review of math concepts and study skills to apply in their math classes. Research at our college and similar community colleges have shown that supports such as these have a huge impact on student retention and success rates.

Program Outcomes

- Upon completion of the Certificate of Competency in College Mathematics Support, students are able to formulate short-term and long-term learning objectives based on their academic goal(s). Students in this program have a goal to develop their knowledge, skills and abilities in preparing transfer.
- Upon completion of the Certificate of Competency in College Mathematics Support, students are able to demonstrate the appropriate skills necessary to become a more productive, successful, and independent learner.
- Upon completion of the Certificate of Competency in College Mathematics Support, students are able to use prerequisite topics effectively in their target mathematics course.
- Upon completion of the Certificate of Competency in College Mathematics Support, students are able to learn and apply study skills and life skills that will improve the student's likelihood of succeeding in their academic goals (examples of topics include brain research, identifying their individual growth mindset, personal time management, test taking and conquering math anxiety strategies, etc.).

Required Core: Select One or More (12-174 Hours)

NMAT 264 (Math Jam for SLAM Preparation)	12-60
NMAT 265 (Math Jam for BSTEM Preparation)	12-60
NMAT 255C (Concurrent Support for Intermediate Algebra)	54

Capstone: Select One (54 Hours)

NMAT 200C (Concurrent Support for SLAM Mathematics)	54
NMAT 201C (Concurrent Support for BSTEM Mathematics)	54

Total Hours 66-228

Certificate of Competency Foundational Mathematics Pathway

About the Certificate

The Basic Skills Math Program is a noncredit pathway for students to develop the mathematical skills necessary at Las Positas to enroll in an intermediate algebra level credit course required for an Associate's (AA/AS). Embedded are essential study and life skills to help each student succeed in credit math courses and beyond. Successful students will have the necessary mathematical understanding to enroll in an intermediate algebra level course, which is the math requirement for an Associate's Degree. Research at our college and similar community colleges have shown that supports such as these have a huge impact on student retention and success rates.

Program Outcomes

- Upon completion of the Certificate of Competency in College Mathematics Pathway, students are able to demonstrate the ability to use symbolic, graphical, numerical, and written representations of mathematical ideas.
- Upon completion of the Certificate of Competency in College Mathematics Pathway, students are able to learn mathematics through modeling real-world situations.
- Upon completion of the Certificate of Competency in College Mathematics Pathway, students are able to read, write, listen to, and speak mathematics with understanding.
- Upon completion of the Certificate of Competency in College Mathematics Pathway, students are able to use appropriate technology to enhance their mathematical thinking and understanding, solve mathematical problems, and judge the reasonableness of their results.
- Upon completion of the Certificate of Competency in College Mathematics Pathway, students are able to use mathematical reasoning and, when appropriate, a general problem solving process to solve problems

Required Core: (180 Hours)

NMAT 207 (Pre-Algebra)	108
NMAT 210 (Elementary Algebra)	72

Total Hours 180

**Certificate of Completion
Math Jam Tutor Pathway**

About the Certificate

The Math Jam for Tutors Program is designed specifically to provide a supportive, noncredit pathway for current Las Positas College math students who are interested in becoming tutors. This program will recruit and prepare students to become paid math tutors at Las Positas College. It offers the unique experience of receiving hands-on training helping students learn key math concepts while in a collaborative setting, supported by a math instructor and fellow math tutors. This program complements possible concurrent training and/or employment at the Tutorial Center, and while completion of this program is very desirable, it is not a requisite for working at the Tutorial Center.

Program Outcomes

- Upon completion of the Certificate of Completion in Math Jam Tutor Pathway, students are able to communicate effectively about theory of Growth Mindset, as an individual and as a tutor.
- Upon completion of the Certificate of Completion in Math Jam Tutor Pathway, students are able to apply mathematical concepts at a higher level.
- Upon completion of the Certificate of Completion in Math Jam Tutor Pathway, students are able to support students in math using best practices in teaching and learning pedagogy.

- Upon completion of the Certificate of Completion in Math Jam Tutor Pathway, students are able to assist students comfortably in a lab setting.
- Upon completion of the Certificate of Completion in Math Jam Tutor Pathway, students are able to navigate an online support course environment effectively.
- Upon completion of the Certificate of Completion in Math Jam Tutor Pathway, students are able to model effective problem-solving, growth mindset and study skills.
- Upon completion of the Certificate of Completion in Math Jam Tutor Pathway, students are able to coach students in how to be an effective learner, using Growth Mindset theory and intelligent practices to be successful.
- Upon completion of the Certificate of Completion in Math Jam Tutor Pathway, students are able to provide guided math workshops to students on historically difficult topics with the support of instructors and fellow tutors.

Career Opportunities

This program prepares students to become paid tutors in the area of Mathematics

Required Core: (9 Hours)

NMAT 260A (Math Jam Introduction to Tutoring)	4
NMAT 260B (Math Jam for Tutors)	5

Total Hours 9

Noncredit Mathematics Courses (NMAT)

NMAT 200C CONCURRENT SUPPORT 0 UNITS FOR SLAM MATHEMATICS

Concurrent Support for SLAM Math is for students interested in disciplines that require Statistics and Liberal Arts Mathematics (SLAM) courses. This course offers structured support to students who are concurrently enrolled in a first-level transfer course, such as Statistics and Mathematics for Liberal Arts, and Finite Mathematics. The support course includes material to prepare students for the rigor of the transfer math course by teaching learning skills necessary to succeed in college courses as well as review of relevant prerequisite algebraic and geometric concepts, and more in-depth investigation of core concepts in their concurrent math course. Corequisite: MATH 40 or MATH 47 or MATH 33. 54 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NMAT 201C CONCURRENT SUPPORT 0 UNITS FOR BSTEM MATHEMATICS

Concurrent Support for BSTEM Mathematics is for students interested in Business, Science, Technology, Engineering and Mathematical fields. This course offers structured support to students who are concurrently enrolled in a first-level transfer course, such as College Algebra, Trigonometry, and Business Calculus. The support course includes material to prepare students for the rigor of the transfer math course by teaching learning skills necessary to succeed

in college courses as well as review of relevant prerequisite algebraic and geometric concepts, and more in-depth investigation of core concepts in their concurrent math course. Corequisite: MATH 30 or MATH 39 or MATH 34. 54 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

**NMAT 202C JUST IN TIME TUTORING 0 UNITS
FOR MATHEMATICS**

This course offers individualized support tailored to college students seeking assistance with their mathematics coursework. Trained tutors and instructors will provide tutoring in foundational mathematics subjects. Students will also develop the study skills needed to succeed in their math classes. 1-54 hours..

Non-Degree Applicable, Noncredit Grading Option: P/NP

NMAT 207 PRE-ALGEBRA 0 UNITS

This course is intended to serve as a bridge between arithmetic and Elementary Algebra. It includes a review of arithmetic, operations involving signed integers, fractions, and decimals, variables and variable expressions, simple linear equations and their graphs, percent and proportion, introduction to statistics, geometry and measurement, and application problems. Students can petition to get credit for the credit Math 107 course by examination. 108 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NMAT 210 ELEMENTARY ALGEBRA 0 UNITS

Elementary algebra concepts, including: real numbers and their properties; algebraic expressions; integer exponents; operations with polynomial expressions; linear and quadratic equations; linear inequalities and set notation; graphs of linear equations and inequalities; slope; systems of linear equations and inequalities; and modeling with linear and quadratic equations. Students can petition to get credit for the Math 110 Elementary Algebra course by examination. Strongly Recommended: MATH 107 with a minimum grade of C or MATH 107B with a minimum grade of C or NMAT 207 with a minimum grade of C. 72 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NMAT 250 INTERMEDIATE ALGEBRA 0 UNITS
FOR SLAM**

This is an Intermediate Algebra course for students interested in fields of study that require Statistics or Liberal Arts Mathematics (SLAM). Intermediate algebra concepts will be explored in the context of the function. Function concepts covered include: distinction between functions and relations, domain and range, function notation, multiple representation of functions, behavior of functions, operations with functions (including composition), one-to-one functions, and invertible functions. Types of functions considered: polynomial, rational, radical, exponential and logarithmic functions. The course includes an introduction to probability, counting and quantitative data. Standards for mathematical practice, applications of functions, and modeling with functions are emphasized throughout. Strongly Recommended: MATH 110 with a minimum grade of C or MATH 110B with a minimum grade of C or NMAT 210 with a minimum grade of C. 108 hours. AA/AS GE: MP.

Non-Degree Applicable, Noncredit Grading Option: OP

NMAT 255 INTERMEDIATE ALGEBRA 0 UNITS

FOR BSTEM

Intermediate Algebra concepts, in the service of Business, Science, Technology, Engineering and Math fields (BSTEM), will be explored in this course including: an introduction to functions; linear and absolute value functions; absolute value equations and inequalities; compound linear inequalities; rational expressions, functions and equations; radical expressions, functions and equations; rational exponents; complex numbers; quadratic functions and equations; inverse of a function; exponential and logarithmic functions; properties of logarithms; exponential and logarithmic equations; conic sections; and systems of equations and inequalities. Multiple representations, applications and modeling with functions are emphasized throughout. Students can petition to get credit for the MATH 55 Intermediate Algebra for BSTEM course by examination. Strongly Recommended: MATH 110 with a minimum grade of C or MATH 110B with a minimum grade of C or NMAT 210 with a minimum grade of C. 90 hours. AA/AS GE: MP.

Non-Degree Applicable, Noncredit Grading Option: OP

**NMAT 255C CONCURRENT SUPPORT 0 UNITS
FOR INTERMEDIATE ALGEBRA**

This course is concurrent support for Intermediate Algebra. The course is designed to provide additional, formal support to students who are currently taking an Intermediate Algebra. It includes a review of arithmetic, algebraic and geometric concepts that are relevant to their Intermediate Algebra course, study strategies that promote understanding and improve performance, and more in-depth investigation of core concepts that are difficult for students to master. Embedded are learning skills such as growth mindset, brain research, time management, study skills, test taking, math anxiety and more. Corequisite: MATH 55 or NMAT 255 or MATH 50 or NMAT 250. 54 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

MATH 256 GEOMETRY 0 UNITS

Topics include congruence, similarity, right triangles, trigonometry, circles, expressing geometric properties with equations, geometric measurement and dimension, modeling with geometry, conditional probability and the rules of probability, and using probability to make decisions. Prerequisite: MATH 110 with a minimum grade of C or NMAT 210 with a minimum grade of C. 81 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NMAT 260A MATH JAM 0 UNITS
INTRODUCTION TO TUTORING**

Math Jam is designed to help students prepare for their upcoming math class. This Math Jam Tutor Training course is designed to train tutors prior to Math Jam in strategies for effectively engaging students in learning difficult math concepts. Tutors will learn about intelligent practices for mastering material and how to navigate in the online course environment participants will be using during Math Jam. This is designed for students who are interested in becoming a paid mathematics tutor at Las Positas College or in any educational capacity. 4 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NMAT 260B MATH JAM FOR TUTORERS 0 UNITS

Math Jam is designed to help students prepare for their upcoming math class. This Math Jam Tutor Training course supports tutors during Math Jam to apply strategies for effectively engaging students in learning difficult math concepts with participants. Tutors apply knowledge around intelligent practices for mastering material as they tutor participants during Math Jam. This is an excellent second course for students who are interested in becoming a paid mathematics tutor at Las Positas College or in any educational capacity. 5 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NMAT 264 MATH JAM FOR SLAM PREPARATION 0 UNITS

Math Jam for SLAM Prep is for students preparing for math courses in Statistics and Probability or Mathematics for Liberal Arts. Math Jam is a FREE noncredit program designed to help students prepare for their upcoming math class at a community college. Embedded are essential study and life skills to develop each student holistically, including career development. Students will be learning prerequisite algebraic and basic probability material with the goal of preparing them to be successful in their upcoming first-level transfer course of Statistics or Math for Liberal Arts class. It is strongly recommended that students taking this course be enrolled in Math 40: Statistics and Probability or Math 47: Mathematics for Liberal Arts at Las Positas College. 12-60 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NMAT 265 MATH JAM FOR BSTEM PREPARATION 0 UNITS

Math Jam for BSTEM Prep is for students preparing for math courses in College Algebra, Trigonometry, Business Calculus and review prior to Calculus I. Math Jam is a noncredit program designed to help students prepare for their upcoming STEM focused math class at a community college. Embedded are essential study and life skills to develop each student holistically, including career development. Students will be learning pre-transfer level material with the goal of preparing them to be successful in their upcoming class. It is strongly recommended that students taking this course be enrolled in a community college math course. 12-60 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NONCREDIT TUTORING

The noncredit tutoring course provides enrolled students with free supervised tutoring to increase the likelihood of success. Trained tutors and instructors provide one-on-one or small-group tutoring to help students achieve specific course objectives in a wide variety of subjects. Students seeking support with communication/literacy skills, quantitative reasoning skills, and critical thinking skills will receive tutoring to strengthen and master basic skills.

Noncredit Tutoring Courses (NTUT)

NTUT 200 SUPERVISED TUTORING 0 UNITS

Open-entry/open-exit supervised tutoring course provided to students requesting assistance or referred by a counselor or instructor. Tutoring is conducted in a learning center and is structured to strengthen student skills, reinforce student mastery, and help students achieve specific course objectives. Trained tutors and instructors will provide individualized/small group tutoring and learning assistance for basic skills, vocational skills, and academic subject matter areas including mathematics, English, science, social science, humanities and a variety of general education courses vital to the overall success and retention of students. 1-96 hours.

Non-Degree Applicable, Noncredit Grading Option: P/NP

NUTRITION

The Nutrition department offers a variety of courses that align with multiple degree pathways. The courses are specifically designed to meet the needs of students who are currently pursuing degrees in Dietetics, Nursing, Health Science, or Kinesiology. Courses also provide students with an introduction to the science of nutrition, which is particularly important for those planning to transfer to baccalaureate programs in Nutrition, Health Education, Public Health, or pre-medicine.

Programs of Study

Degrees:

- AS-T – Nutrition and Dietetics

AS-T – Nutrition and Dietetics

About the Degree

The Associate of Science in Nutrition and Dietetics for Transfer is designed for prospective California State University (CSU) who are preparing for careers in the field of Nutrition and Dietetics such as a Registered Dietitian (RD), Nutritionist, Licensed Nutritionist and Dietetic Technician Registered (DTR) to name a few. Completion of the Nutrition and Dietetics degree will provide a streamlined pathway for transfer to a CSU campus with a Nutrition Science or similar major. Students should consult with a counselor to determine whether or not this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution. There are UC unit limitations with Chemistry courses; please see a counselor for details if you are pursuing transfer to the UC system.

Completion Requirements:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education – Breadth Requirements.
 - A minimum of 18 semester units or 27 quarter units

in a major or area of emphasis, as determined by the community college district.

- Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AS-T in Nutrition and Dietetics, students are able to acquire knowledge to develop health promotion and disease prevention programs that address diverse populations within a community (such as ethnicity, cultural backgrounds, socioeconomic status, and regional resources).
- Upon completion of the AS-T in Nutrition and Dietetics, students are able to communicate knowledge of nutrition and metabolism and apply that knowledge to the maintenance of health and the treatment of disease.
- Upon completion of the AS-T in Nutrition and Dietetics, students are able to critically evaluate factors influencing obesity, and the metabolic consequences of obesity, as it relates to chronic disease.

Required Core: (16 Units)

BIO 7C (Microbiology)	5
CHEM 1A (General College Chemistry I).....	5
NTRN 1 (Introduction to Nutrition Science).....	3
PSYC 1 (General Psychology).....	3

List A: Select Two (9-10 Units)

BIO 7A (Human Anatomy)	5
BIO 7B (Human Physiology)	5
CHEM 1B (General College Chemistry II).....	5
CHEM 12A (Organic Chemistry I)	5
MATH 40 (Statistics and Probability)	4

List B: Select One (3-5 Units)

ANTR 3 (Cultural Anthropology)	3
CHEM 12B (Organic Chemistry II).....	5
CHEM 30A (Intro and Applied Chemistry I).....	4
CHEM 30B (Intro and Applied Chemistry II)	4
ECON 1 (Principles of Microeconomics).....	3
ECON 2 (Principles of Macroeconomics)	3
SOC 1 (Principles of Sociology)	3

Total Units for the Major 28-31

Additional General Education and Elective Units 29-32

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Nutrition Courses (NTRN)

NTRN 1 INTRODUCTION TO NUTRITION SCIENCE 3 UNITS

Scientific concepts of nutrition related to the function of nutrients, sources and recommended intakes. Nutritional assessment and the role of nutrition in the maintenance of health. Strongly Recommended: CHEM 30A with a minimum grade of C, MATH 110 with a minimum grade of C. 54 hours lecture. AA GE: VB. Transfer: CSU, UC*; CSU GE: E; C-ID# NUTR 110. *NTRN 1 and 5 combined: maximum UC credit, 1 course.

Degree Applicable, Credit Grading Option: GR

NTRN 5 SPORTS NUTRITION 3 UNITS

Students will study the role of nutrition in sports, performance and physical fitness. Optimal food, nutrient, and activity choices to maximize athletic performance for all athlete types. Strongly Recommended: NTRN 1 with a minimum grade of C. 54 hours lecture. Transfer: CSU, UC*. *NTRN 1 and 5 combined: maximum UC credit, 1 course.

Degree Applicable, Credit Grading Option: GR

OCCUPATIONAL SAFETY AND HEALTH

The Occupational Safety and Health program is designed to provide students the skills needed for employment in occupational safety and health. Practitioners in this career implement health and safety programs to meet mandated regulations in an effort to control occupational injuries and illnesses, accidents, and property losses due to unsafe working conditions. The scope of work in occupational safety and health may include development of cutting edge health and safety programs, identification of workplace hazards and appropriate controls, recognition and evaluation of potential worker exposure to contaminants, accident/incident investigation, and development/delivery of health and safety training programs.

Programs of Study

Degrees:

- AS – Occupational Safety and Health

Certificates of Achievement:

- Occupational Safety
- Occupational Safety and Health

Career Opportunities

The safety and health worker may specialize in various fields including general safety, construction safety, chemical and radiological safety, emergency response, transportation, fire and property protection, or systems or product design, among others. The Associate of Science degree and the Certificate of Achievement in Occupational Safety and Health are designed for direct job entry and/or career enhancement.

AS – Occupational Safety and Health

About the Degree

The Associate of Science in Occupational Safety and Health degree program is designed to provide students the academic foundation for understanding hazardous materials management, construction safety, OSH safety training and accident investigation, for workplace safety and health standards. The Occupational Safety and Health specialist implements mandated health and safety regulations in an effort to control occupational accidents and diseases, property losses and injuries due to unsafe working conditions. The scope of this position includes the identification of physical hazards and the design and implementation of remediation, the evaluation of potential toxic agent risk to the employer, the development of safety management and employee training/management programs. The demand for occupational safety and health specialists has grown over the past 10

years. According to the U.S. Bureau of Labor Statistics, federal, state and local government job growth will continue through 2022.

Career Opportunities

The safety and health practitioner may specialize in general workplace safety, construction, fire and property protection, transportation, chemical and radiological safety, emergency response, systems or product design. The Associate of Science degree in Occupational Safety and Health is designed for direct job entry and/or career enhancement. Completion of the degree may be used to provide work experience credit toward OHST (Occupational Health and Safety Technician) certification requirements. Completion of the degree may be used to provide work experience credit toward CSP (Certified Safety Professional) certification requirements. Career opportunities include Safety Manager, Safety Technician, Safety Specialist, Safety Officer, Industrial Hygienist, Safety Professional – Construction, Safety Professional – Manufacturing, Safety Professional – Metals, Field Safety and OSHA Specialist, and Safety and Environmental Manager.

Program Outcomes

- Upon completion of the AS in Occupational Safety and Health, students are able to apply a working knowledge of mathematics and the sciences to conduct experiments and to analyze and interpret data to solve safety and health related issues.
- Upon completion of the AS in Occupational Safety and Health, students are able to design programs to control, eliminate, and prevent occupational disease or injury caused by chemical, physical, radiological, and biological agents or ergonomic factors.
- Upon completion of the AS in Occupational Safety and Health, students are able to prepare emergency response and fire prevention plans that meet regulatory requirements.

Required Core: (32-33 Units)

BIO 20 (Contemporary Human Biology).....	3
CHEM 30A (Introductory and Applied Chemistry I) or CHEM 1A (General College Chemistry I)	4-5
CIS 50 (Introduction to Computing Information Technology)	3
FST 4 (Fire Prevention)	3
OSH 50 (Intro Occupational Safety/Hlth)	3
OSH 60 (Elements of Industrial Hygiene)	3
OSH 62 (Physical Hazards).....	3
OSH 67 (Comp Regulatory Requirements).....	3
PHYS 10 (Descriptive Physics)	3
RADS 40A (Radiation Safety)	2
RADS 40B (Emergency Response and Monitoring)	1
RADS 40C (Safety Controls and Regulation).....	1

List A: Select One (4-5 Units)

CHEM 1B (General College Chemistry II).....	5
CHEM 30B (Introductory and Applied Chemistry II)	4
MATH 40 (Statistics and Probability)	4

List B: Select One (3-4 Units)

BIO 30 (Introduction to College Biology).....	4
BIO 40 (Humans and the Environment).....	3
BIO 50 (Anatomy and Physiology).....	4

Program-Based GE[^]: (3 Units)

PSYC 1 (General Psychology).....3

Total Units for the Major39-42

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Occupational Safety

About the Certificate

The Certificate of Achievement in Occupational Safety is designed to provide students with a foundation of understanding hazardous materials management, construction safety, OSH safety training and accident investigation, for workplace safety and health standards. The Occupational Safety and Health specialist implements mandated health and safety regulations in an effort to control occupational accidents and diseases, property losses and injuries due to unsafe working conditions. The scope of this position includes the identification of physical hazards and the design and implementation of remediation, the evaluation of potential toxic agent risk to the employer, the development of safety management and employee training/management programs. The demand for occupational safety and health specialists has grown over the past 10 years. According to the U.S. Bureau of Labor Statistics, federal, state and local government job growth will continue through 2022.

Career Opportunities

The safety and health practitioner may specialize in fire and property, chemical and radiological safety, emergency response, general workplace safety, transportation, construction, systems or product design. The Certificate of Achievement in Occupational Safety and Health is designed for direct job entry and/or career enhancement. Career opportunities include, Safety Technician, Safety Specialist, Safety Officer, Industrial Hygienist, Safety Professional – Construction, Safety Professional – Manufacturing, Safety Professional – Metals, and Field Safety and OSHA Specialist.

Program Outcomes

- Upon completion of the Certificate of Achievement in Occupational Safety, students are able to explain the role

of OSHA in workplace safety and how to develop effective, comprehensive health and safety programs leading to a proactive safety culture.

- Upon completion of the Certificate of Achievement in Occupational Safety, students are able to prepare a job safety analysis (JSA) of specific work tasks to identify inherent hazards and appropriate controls.
- Upon completion of the Certificate of Achievement in Occupational Safety, students are able to explain the requirements for recording injuries and illnesses on the OSHA 300 log.
- Upon completion of the Certificate of Achievement in Occupational Safety, students are able to describe the impact of an organization's Experience Modification Rate (EMR) on an organization's Workers' Compensation premium.
- Upon completion of the Certificate of Achievement in Occupational Safety, students are able to calculate and analyze widely accepted injury and illness rates for an organization.
- Upon completion of the Certificate of Achievement in Occupational Safety, students are able to interpret OSHA's Hierarchy of Controls and how to appropriately apply them to work situations to minimize risk in the workplace.

Required Core: (9 Units)

OSH 50 (Intro Occupational Safety/Hlth)3
OSH 62 (Physical Hazards).....3
OSH 67 (Comp Regulatory Requirements).....3

Total Units 9

Certificate of Achievement Occupational Safety and Health

About the Certificate

The Certificate of Achievement in Occupational Safety and Health is designed to provide students with a foundation of understanding hazardous materials management, construction safety, OSH safety training and accident investigation, for workplace safety and health standards. The Occupational Safety and Health specialist implements mandated health and safety regulations in an effort to control occupational accidents and diseases, property losses and injuries due to unsafe working conditions. The scope of this position includes the identification of physical hazards and the design and implementation of remediation, the evaluation of potential toxic agent risk to the employer, the development of safety management and employee training/management programs. The demand for occupational safety and health specialists has grown over the past 10 years. According to the U.S. Bureau of Labor Statistics, federal, state and local government job growth will continue through 2022.

Career Opportunities

The safety and health practitioner may specialize in fire and property, chemical and radiological safety, emergency response, general workplace safety, transportation, construction, systems or product design. The Certificate of Achievement in Occupational Safety and

Health is designed for direct job entry and/or career enhancement. Completion of the certificate may be used to provide work experience credit toward OHST (Occupational Health and Safety Technician) certification requirements. Completion of the certificate may be used to provide work experience credit toward CSP (Certified Safety Professional) certification requirements. Career opportunities include, Safety Technician, Safety Specialist, Safety Officer, Industrial Hygienist, Safety Professional – Construction, Safety Professional – Manufacturing, Safety Professional – Metals, and Field Safety and OSHA Specialist.

Program Outcomes

- Upon completion of the Certificate of Achievement in Occupational Safety and Health, students are able to prepare an emergency response plan meeting regulatory requirements.
- Upon completion of the Certificate of Achievement in Occupational Safety and Health, students are able to design programs to control, eliminate, and prevent disease or injury caused by chemical, physical, radiological, and biological agents or ergonomic factors..
- **Required Core: (12 Units)**

OSH 50 (Intro Occupational Safety/Hlth)	3
OSH 60 (Elements of Industrial Hygiene)	3
OSH 62 (Physical Hazards).....	3
OSH 67 (Comp Regulatory Requirements).....	3

List A: Select from Below (4-5 Units)

BIO 20 (Contemporary Human Biology).....	3
CHEM 30A (Introductory and Applied Chemistry I)	4
FST 4 (Fire Prevention)	3
PHYS 10 (Descriptive Physics)	3
RADS 40A (Radiation Safety)	2
RADS 40B (Emergency Response and Monitoring)	1
RADS 40C (Safety Controls and Regulation).....	1

Total Units 16-17

Occupational Safety and Health Courses (OSH)

OSH 50 INTRO OCCUPATIONAL SAFETY/ HLTH 3 UNITS

An introduction to the principles and techniques of occupational safety and health management. Includes historical evolution, professional make-up and responsibilities of the occupational and safety practitioners, and analysis and implementation of a typical safety program. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

OSH 60 ELEMENTS OF INDUSTRIAL HYGIENE 3 UNITS

Introduction to the major subject areas of Industrial Hygiene. This includes anticipation, recognition, evaluation, and control of workplace hazards; effects of toxic agents on the body; measurement of these agents; general methods for their control; as well as State and

Federal regulatory requirements. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

OSH 62 PHYSICAL HAZARDS 3 UNITS

Examination of physical hazards in the work environment and methods of control. Includes review of key hazards and regulatory requirements associated with human factors e.g., work area layout and planning, machine guarding, electrical safety, materials handling, rigging, conveyors, power tools, personal protective equipment, compressed gases, illumination, and working surfaces. Emphasis on methods for observation and inspection of workplace conditions and practices. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

OSH 67 COMP REGULATORY REQUIREMENTS 3 UNITS

An introductory review of State and Federal Occupational Safety and Health Acts, awareness of life safety, fire safety and building codes and standards, Workers' Compensation laws, and other important regulations as they relate to occupational safety and health management. Includes interactive discussion of key regulatory requirements, focusing on employer responsibilities, interpretation of key regulations and techniques to implement an effective, comprehensive occupational safety and health program. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

PHILOSOPHY

Philosophy is a discipline that focuses on knowledge, reality, and values. Philosophy courses at Las Positas invite students to explore fundamental questions, such as Who am I? Does God exist? What is justice? Students in philosophy classes study traditional answers to these questions and are invited to develop their own positions. Philosophy introduces students to perspectives on human culture that enrich the study of other fields in the social sciences and humanities. The study of philosophy develops important skills of critical thinking, analysis, creativity, and communication that will help students succeed in the workplace.

Programs of Study

Degrees:

- AA-T – Philosophy

Career Opportunities

The undergraduate path in philosophy teaches the skills of reading, writing, argumentation and critical thinking applicable to most employment situations. Students who major in philosophy are often preparing for graduate work in Philosophy, Law, Business and Medicine.

AA-T – Philosophy

About the Degree

Philosophy is an academic area of study concerned with knowledge, reality and values. The program for the AA-T in Philosophy exposes students to the great historical arguments on these issues, and prompts students to think for themselves on these important topics. Students progressing toward the AA-T in Philosophy will learn the tools of argumentative analysis and conceptual critique. They will be expected to apply these reasoning skills both to historical philosophical ideals and toward their own creative solutions to age old questions. The study of philosophy develops important skills of thinking, analysis, creativity, and communication that are useful for any field of employment or further study. The transfer degree is especially intended to assist students in transferring into the California State University System. Because this is an Associate Degree for Transfer, the LPC GE requirements of American Institutions, American Cultures, and Wellness do not apply and are not required of students earning this degree.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AA-T in Philosophy, students are able to develop and present formal philosophical arguments using effective logical argumentative technique and avoiding logical error and fallacies.
- Upon completion of the AA-T in Philosophy, students are able to respond to philosophical writing and ideas of historical and contemporary philosophers by describing philosophical arguments, evaluating those arguments, and applying them with accuracy and creativity to contemporary conditions.

Required Core: (6-7 Units)

PHIL 1 (God, Nature, Human Nature) or PHIL 2 (Ethics).....	3
PHIL 6 (Introduction to Logic) or PHIL 8 (Logic and Argumentation).....	3-4

List A: Select One (3 Units)

Any Required Core not already used*.....	3
PHIL 3 (Aesthetics)	3
PHIL 4 (Intro to Philosophy: Knowledge)	3
PHIL 5 (Feminist Philosophy).....	3

List B: Select Two (6 Units)

Any List A course not already used.....	3
HIST 1 (Western Civilization to 1600).....	3
HIST 2 (Western Civilization Since 1600).....	3

List C: Select One (3 Units)

Any List A or B course not already used.....	3
HUMN 3 (Introduction to Humanities).....	3
HUMN 6 (Nature and Culture)	3
HUMN 10 (American Arts and Ideas).....	3
HUMN 28 (World Mythology)	3
RELS 1 (Religions of the World).....	3
RELS 2 (Bible: History and Literature).....	3
RELS 3 (Intro To Women's Spirituality)	3
RELS 11 (The Nature of Islam).....	3

Total Units for the Major 18-19

Additional General Education and Elective Units 41-42

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Philosophy Courses (PHIL)

PHIL 1	GOD, NATURE, HUMAN NATURE	3 UNITS
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An exploration of the nature and range of philosophical inquiry in relation to everyday problems of humans as individuals, as citizens, as physical creatures, and as creators of spiritual and artistic works. Philosophical texts are analyzed with special attention given to the development of skills in analysis and argumentation. NOTE: Philosophy 2 and 4 are also introductory courses and may be taken before Philosophy 1 if a more detailed examination of ethical problems, the theory of knowledge, or political philosophy is desired. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC*; CSU GE: C2; IGETC: 3B; C-ID# PHIL 100. * *PHIL 1 and 1H combined: UC credit will be awarded only for the first course completed with a grade of C or better.*

Degree Applicable, Credit Grading Option: GR

PHIL 1H	HONORS PHILOSOPHY 1: GOD, NATURE, HUMAN NATURE	3 UNITS
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This is an honors course for philosophy 1. Philosophy 1 is an exploration of the nature and range of philosophical inquiry in relation to everyday problems of humans as individuals, as citizens, as physical creatures, and as creators of spiritual and artistic works. Philosophical texts are analyzed with special attention given to the development of skills in analysis and argumentation. Students in Honors Philosophy 1 course will have assignments in reading, writing, discussion, analysis, and oral presentation at a level of rigor higher than those in Philosophy 1 and consistent

with honors program expectations. NOTE: Philosophy 2 and 4 are also introductory courses and may be taken before Philosophy 1 if a more detailed examination of ethical problems, the theory of knowledge, or political philosophy is desired. A student who has successfully completed PHIL 1 cannot enroll in PHIL 1H. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC*; CSU GE: C2; IGETC: 3B; C-ID# PHIL 100. *PHIL 1 and 1H combined: UC credit will be awarded only for the first course completed with a grade of C or better.

Degree Applicable, Credit Grading Option: GR

PHIL 2 ETHICS 3 UNITS

This course covers the concepts of morality, values and influential ethical theories. Students taking this course will be required to use philosophical methods to evaluate these theories for themselves and show how these theories can apply to everyday ethical questions. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC*; CSU GE: C2; IGETC: 3B; C-ID# PHIL 120. *PHIL 2 and 2H combined: UC credit will be awarded only for the first course completed with a grade of C or better.

Degree Applicable, Credit Grading Option: GR

PHIL 2H HONORS PHILISOPHY 2: ETHICS 3 UNITS

This is an honors course for Philosophy 2. This course covers the concepts of morality, values and influential ethical theories. Students taking this course will be required to use philosophical methods to evaluate these theories for themselves and show how these theories can apply to everyday ethical questions. Students in Honors Philosophy 2 course will have assignments in reading, writing, discussion, analysis, and oral presentation at a level of rigor higher than those in Philosophy 2 and consistent with honors program expectations. A student who has successfully completed PHIL 2 cannot enroll in PHIL 2H. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC*; CSU GE: C2; IGETC: 3B; C-ID# PHIL 120. *PHIL 2 and 2H combined: UC credit will be awarded only for the first course completed with a grade of C or better.

Degree Applicable, Credit Grading Option: GR

PHIL 3 AESTHETICS 3 UNITS

An introduction to the philosophical analysis of art. Topics include the nature of art and beauty, the value of art, and philosophical methods of evaluating, critiquing, and drawing meaning from artistic works. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC, CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: OP

PHIL 4 INTRO TO PHILOSOPHY: KNOWLEDGE 3 UNITS

Systematic analysis of documents that constitute the major statements in the theory of knowledge. Investigation of the nature of knowledge, truth and belief. Emphasis placed on enabling students to analyze, critique and defend their own systems of beliefs. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: GR

PHIL 5 FEMINIST PHILOSOPHY 3 UNITS

Introduction to feminist philosophical perspectives on such issues as gender, art, sexuality, knowledge, power, identity, popular culture, religion, ethics, and war. Emphasis placed on critical analysis as well as application to contemporary problems facing women today. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: OP

PHIL 6 INTRODUCTION TO LOGIC 3 UNITS

An introduction to Logic. This course is designed to develop effective reasoning skills. Valid reasoning through formal deductive logic is emphasized, but the course also covers meaning in language, fallacies, and inductive reasoning methods in philosophy, literature and the sciences. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: IB, IC, III. Transfer: CSU, UC; CSU GE: A3, C2; IGETC: 3B; C-ID# PHIL 110.

Degree Applicable, Credit Grading Option: OP

PHIL 8 LOGIC AND ARGUMENTATION 4 UNITS

Logic and Argumentation. This course is designed to develop effective reasoning skills. Valid reasoning through formal deductive logic is emphasized, but the course also covers meaning in language, fallacies, and inductive reasoning methods in philosophy, literature and the sciences. This course differs from Philosophy 6 (Introduction to Logic) in that it has a prerequisite of English 1A and involves the application of logical technique to a major research paper. Prerequisite: ENG 1A with a minimum grade of C. 72 hours lecture. AA/AS GE: IB, IC, III. Transfer: CSU, UC; CSU GE: A3, C2; IGETC: 1B, 3B; C-ID# PHIL 110.

Degree Applicable, Credit Grading Option: GR

PHIL 29 INDEPENDENT STUDY, PHILOSOPHY 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

PHOTOGRAPHY

The Las Positas College Photography program offers a broad array of course opportunities crossing a full spectrum of the imaging field. Students become familiar with traditional film-based and digital (electronic) imaging technologies for making artistically rendered, captivating photographic images (both black & white and color) of visual communications and media. Students do hands-on work in the College's well-equipped studio, darkroom and computer laboratory. They master digital imaging in preparation for print and web distribution, create short programs in videography, and work with artificial lighting for portrait and commercial applications. Most students take a history of photography class and a course concentrating on doing documentary photography.

Programs of Study

Degrees:

- AA – Photography

Certificates of Achievement:

- Photography

AA – Photography

About the Degree

The Associate of Arts in Photography degree is designed to prepare students for employment in the field of professional photography. The program will give students the technical and creative skills needed to pursue a career in the field of photography as well as a broad based education that will augment those skills. Students earning the AA can also earn the Certificate of Achievement in Photography on their way to completion and earning the AA will make a student more employable than if they earn the Certificate of Achievement alone. Upon completion of the degree students will be able to work as an entry to mid level professional photographer.

Career Opportunities

Professional Photographer, Photography business owner, Portrait Photographer, Wedding Photographer, Architectural Photographer, digital imaging technician, Photo Studio Manager, Photo Assistant.

Program Outcomes

- Upon completion of the AA in Photography, students are able to critique, analyze, and discuss photographic images utilizing knowledge of the history, aesthetics, and contemporary issues of the photography field.
- Upon completion of the AA in Photography, students are able to effectively visualize and accurately construct lighting designs utilizing artificial studio lighting and natural light in photographs.
- Upon completion of the AA in Photography, students are able to operate both digital and film-based photographic equipment

used in the photography field.

- Upon completion of the AA in Photography, students are able to visualize and produce entry-level commercial and fine art photographs that demonstrate fully developed concepts of form, medium, and content.

Required Core: (22.5 Units)

PHTO 50 (Introduction to Photography)	3
PHTO 51A (Individual Projects A)	1.5
PHTO 56 (Introduction to Digital Photography)	1.5
PHTO 57 (Intermediate Digital Photography)	1.5
PHTO 58 (Introduction to Videography)	3
PHTO 60 (Intermediate Black and White Photography)	3
PHTO 64A (Artificial Light Photography)	3
PHTO 68 (Color Field Photography)	3
PHTO 70 (Photoshop and Lightroom for Photographers) or GDDM 70 (Photoshop and Lightroom for Photographers)	3

List A: Select Two (5-6 Units)

PHTO 29P (Independent Study, Photography).....	2
PHTO 29V (Independent Study, Video Production)	2
PHTO 66 (Digital Imaging)	3
PHTO 67 (History of Photography).....	3
PHTO 69 (Intermediate Videography).....	3
PHTO 72 (Introduction to Photojournalism) or JAMS (12 Introduction to Photojournalism)	3

Total Units for the Major 27.5-28.5

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Photography

About the Certificate

The Certificate of Achievement in Photography is designed to prepare students for employment in the field of professional photography. The program will give students the technical and creative skills needed to pursue a career in the field of photography. Upon completion of the certificate students will be able to work as an entry level professional photographer.

Career Opportunities

Professional Photographer, Photography business owner, Portrait

Photographer, Wedding Photographer, Architectural Photographer, digital imaging technician, Photo Studio Manager, Photo Assistant.

Program Outcomes

- Upon completion of the Certificate of Achievement in Photography, students are able to appropriately visualize and accurately construct lighting designs utilizing artificial studio lighting and natural, available light in film and digital photographs.
- Upon completion of the Certificate of Achievement in Photography, students are able to appropriately visualize and produce entry level professional, commercial, and fine art photographs that represent fully developed concepts of form, medium and content.
- Upon completion of the Certificate of Achievement in Photography, students are able to critique and discuss film and digital photographic images that represent fully developed concepts of form, medium and content.

Required Core: (22.5 Units)

PHTO 50 (Introduction to Photography)	3
PHTO 51A (Individual Projects A)	1.5
PHTO 56 (Introduction to Digital Photography)	1.5
PHTO 57 (Intermediate Digital Photography)	1.5
PHTO 58 (Introduction to Videography)	3
PHTO 60 (Intermediate Black and White Photography)	3
PHTO 64A (Artificial Light Photography)	3
PHTO 68 (Color Field Photography)	3
PHTO 70 (Photoshop and Lightroom for Photographers) or GDDM 70 (Photoshop and Lightroom for Photographers)	3

List A: Select Two (5-6 Units)

PHTO 29P (Independent Study, Photography)	2
PHTO 29V (Independent Study, Video Production)	2
PHTO 66 (Digital Imaging)	3
PHTO 67 (History of Photography)	3
PHTO 69 (Intermediate Videography)	3
PHTO 72 (Introduction to Photojournalism) or JAMS 12 (Introduction to Photojournalism)	3

Total Units 27.5-28.5

Photography Courses (PHTO)

PHTO 29P INDEPENDENT STUDY, PHOTOGRAPHY 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

PHTO 29V INDEPENDENT STUDY, VIDEO PRODUCTION 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

PHTO 50 INTRODUCTION TO PHOTOGRAPHY 3 UNITS

Introduction to the history and development of photography, basic

processes, various types of cameras, materials, basic shooting, processing, developing, and printing of photographs. 27 hours lecture, 81 hours laboratory. Transfer: CSU, UC.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

PHTO 51A INDIVIDUAL PROJECTS A 1.5 UNITS

Individual projects in digital or film-based photography at the intermediate to advanced level. Development of knowledge and skills acquired in previous or current photography work with emphasis on current projects. Strongly Recommended: PHTO 50 with a minimum grade of C or PHTO 56 with a minimum grade of C. 9 hours lecture, 54 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

PHTO 51B INDIVIDUAL PROJECTS B 1.5 UNITS

Continued study on advanced topics of photography and exhibition, installation, and portfolio of photography. Strongly Recommended: PHTO 51A with a minimum grade of C. 9 hours lecture, 54 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

PHTO 56 INTRODUCTION TO DIGITAL PHOTOGRAPHY 1.5 UNITS

The course covers basics for the beginner's use of digital cameras, film and flatbed scanners, and use of Adobe software for image adjustments. Exploration of digital photography compared with traditional photographic approaches and processes. Operation of Adobe digital imaging software for preparation of web site photos and print output, in both black and white and in color. 18 hours lecture, 27 hours laboratory. Transfer: CSU, UC.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

PHTO 57 INTERMEDIATE DIGITAL PHOTOGRAPHY 1.5 UNITS

This course covers digital photography including intermediate and advanced digital image capture assignments, camera use, digital manipulation using software such as Adobe Photoshop, and preparation of image files for display printing and use on the Web. Strongly Recommended: PHTO 56 with a minimum grade of C. 18 hours lecture, 27 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

PHTO 58 INTRODUCTION TO VIDEOGRAPHY 3 UNITS

Introduction to the theory and practice of video production and desktop video editing including project production phases, time-based visual and sound design, digitizing footage, video output issues, working creatively in a collaborative environment, industry standards, using a Macintosh computer platform. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

PHTO 60 INTERMEDIATE BLACK AND WHITE PHOTOGRAPHY 3 UNITS

Using exposure/development controls related to black and white negative materials. Development of intermediate/advanced printmaking skills. Emphasis on visual and critical problems related to black and white photography. Strongly Recommended: PHTO 50 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU, UC.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

PHTO 64A ARTIFICIAL LIGHT PHOTOGRAPHY 3 UNITS

Photography using light sources selected and manipulated by the photographer, use of light sources in a controlled situation to achieve technically accurate renditions of subject matter and to make successful visual statements, and lighting techniques for product, still life, and portrait photography. Strongly Recommended: PHTO 50 with a minimum grade of C or PHTO 56 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

PHTO 66 DIGITAL IMAGING 3 UNITS

The course covers desktop digital imaging systems including editing software, scanning, camera use, and digital printing. Students will learn to use devices for image capture, storage, output, how to apply traditional photographic controls to enhance image quality in the digital medium, and to digitally manipulate images using digital editing software. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

PHTO 67 HISTORY OF PHOTOGRAPHY 3 UNITS

A broad chronological survey of photography from its invention to the present. Considers the medium's dual role as technology and art, addresses a multiplicity of photographic themes and purposes, and considers the intersections of photography and technology, history, art, and everyday life. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit Grading Option: OP

PHTO 68 COLOR FIELD PHOTOGRAPHY 3 UNITS

This course covers the use of either digital photography or color slide or negative film to explore the solution of special technical and visual problems encountered in location shooting. Strongly Recommended: PHTO 50 with a minimum grade of C or PHTO 56 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

PHTO 69 INTERMEDIATE 3 UNITS

VIDEOGRAPHY

This course covers intermediate level digital video production to integrate and build upon prior video making skills. emphasis is on creative expression, improving all production values, edited quality of finished presentation, distribution of quality video piece to festivals and the web. Class is taught on the Macintosh computer platform. Strongly Recommended: PHTO 58 with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

PHTO 70 PHOTOSHOP AND LIGHTROOM 3 UNITS FOR PHOTOGRAPHERS

Learn to use Lightroom and Photoshop in a workflow designed for digital photographers. Learn Best practices for digital workflows, database management, non-destructive parametric editing, color management, and output to print, web, slideshows, and photo book. Students who have completed, or are enrolled in, GDDM 70 may not receive credit. Strongly Recommended: PHTO 56 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. AA/AS GE: III. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

PHTO 72 INTRODUCTION TO PHOTOJOURNALISM 3 UNITS

This course deals with the photographer as a journalist, focusing on theory and practice in press and publications photography, with emphasis on using the camera as a reporting and communications tool. Covered are news and feature photography and photographic essays, including composition, impact, and creativity, for newspapers, magazines, the Internet, and other mass communications media. Understanding and applying photojournalistic and basic technical and visual skills in the making of successful reportage photographs. Consideration of the work of major 20th and 21st century photojournalists. Students who have completed, or are enrolled in, JAMS 12 may not receive credit. Strongly Recommended: PHTO 50 with a minimum grade of C and/or PHTO 56 with a minimum grade of C and/or GDDM 53 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU, UC*; C-ID# JOUR 160. *JAMS 12, JAMS 23, PHTO 72 combined: maximum UC credit, one course.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

PHYSICS

Physics, the study of natural phenomena from the smallest subatomic scales to the largest astronomical scales, is the foundation of all natural sciences and technological fields. Physics includes a wide variety of specializations, ranging from practical, technology-driven fields to the study of the fundamental laws and structure of the universe. The physics program at Las Positas College includes three tracks of study: calculus-based physics, algebra-based physics, and conceptual physics.

Programs of Study

Degrees:

- AS – Physics

Career Opportunities

Career opportunities for physicists with a bachelor's degree (or higher) include working as a staff scientist at a telescope facility, a researcher at an industry, university, or government-funded scientific agency (NASA, DOE, national laboratories, etc.), in K-12 or higher education, or as a scientist who interacts with the public (through museums, science policy in government, etc.). Because a physicist's skill set is versatile, physicists also find jobs in other technical fields that value mathematical and computing skills, including technology or engineering companies, financial institutions, and companies requiring data analysts.

AS – Physics

About the Degree

The Associate of Science in Physics is designed to prepare students for to transfer ready for upper division work towards a bachelor's degree in Physics, Applied Physics, and related fields such as Astronomy and Astrophysics. The study of Physics encompasses a wide variety of disciplines and specializations, ranging from technology-driven fields to the study of the fundamental laws and structure of the universe

Program Outcomes

- Upon completion of an AS in Physics, students are able to analyze physical situations quantitatively using fundamental physics principles, ranging from Newtonian mechanics to modern physics.
- Upon completion of an AS in Physics, students are able to design and conduct laboratory experiments, and analyze and interpret their data.
- Upon completion of an AS in Physics, students are able to effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.

Required Core: (36.5 Units)

MATH 1 (Calculus I).....	5
MATH 2 (Calculus II).....	5
MATH 3 (Multivariable Calculus).....	5

MATH 5 (Ordinary Differential Equations).....	3.5
PHYS 1A (General Physics I).....	5
PHYS 1B (General Physics II).....	5
PHYS 1C (General Physics III).....	5
PHYS 1D (General Physics IV).....	3

Program-Based GE[^]: (3.5 Units)

MATH 7 (Elementary Linear Algebra).....	3.5
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Total Units for the Major 36.5

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Physics Courses (PHYS)

PHYS 1A GENERAL PHYSICS I 5 UNITS

Introduction to the principles of Newtonian Mechanics and analytical methods of physics using calculus as needed. Topics covered include vectors, kinematics, forces, energy, momentum, rotation, and gravitation. Prerequisite: MATH 1 with a minimum grade of C. 72 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# PHYS 200 S (if taken with PHYS 1B+1C+1D), PHYS 205. *PHYS 2A, 2B or PHYS 1A, 1B, 1C, 1D combined: maximum UC credit, one series.

Degree Applicable, Credit Grading Option: GR

PHYS 1B GENERAL PHYSICS II 5 UNITS

Introduction to fluid dynamics, oscillations, mechanical waves, thermodynamics, light and optics. Prerequisite: PHYS 1A with a minimum grade of C and MATH 2 with a minimum grade of C. 72 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# PHYS 200 S (if taken with PHYS 1A+1C+1D), PHYS 215 (if taken with PHYS 1D). *PHYS 2A, 2B or PHYS 1A, 1B, 1C, 1D combined: maximum UC credit, one series.

Degree Applicable, Credit Grading Option: GR

PHYS 1C GENERAL PHYSICS III 5 UNITS

Introduction to electricity and magnetism, circuits, Maxwell's equations and electromagnetic waves. Prerequisite: PHYS 1A with

a minimum grade of C and MATH 3 with a minimum grade of C (May be taken concurrently). 72 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# PHYS 200 S (if taken with PHYS 1A+1B+1D), PHYS 210. * *PHYS 2A, 2B or PHYS 1A, 1B, 1C, 1D combined: maximum UC credit, one series.*

Degree Applicable, Credit Grading Option: GR

PHYS 1D GENERAL PHYSICS IV 3 UNITS

Introduction to relativity and modern physics, including: introduction to quantum theory; atomic, molecular, nuclear and particle physics; condensed matter physics; astrophysics and cosmology. Prerequisite: PHYS 1B with a minimum grade of C and PHYS 1C with a minimum grade of C, MATH 5 with a minimum grade of C (May be taken concurrently). 36 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# PHYS 200 S (if taken with PHYS 1A+1B+1C), PHYS 215 (if taken with PHYS 1B). * *PHYS 2A, 2B or PHYS 1A, 1B, 1C, 1D combined: maximum UC credit, one series.*

Degree Applicable, Credit Grading Option: GR

PHYS 2A INTRODUCTION TO PHYSICS I 4 UNITS

Introduction to the major principles of classical mechanics using pre-calculus mathematics. Includes Newtonian mechanics, energy, gravitation, fluids, thermodynamics, oscillations, and waves. Prerequisite: MATH 39 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# PHYS 100 S (if taken with PHYS 2B), PHYS 105. * *PHYS 2A, 2B or PHYS 1A, 1B, 1C, 1D combined: maximum UC credit, one series.*

Degree Applicable, Credit Grading Option: GR

PHYS 2B INTRODUCTION TO PHYSICS II 4 UNITS

This algebra-based course is an introduction to the basic principles of electricity, magnetism, and modern physics. Topics include electrostatics, magnetism, circuits, electromagnetic waves, optics, relativity, atomic physics, and nuclear physics. Prerequisite: PHYS 2A with a minimum grade of C. 54 hours lecture, 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# PHYS 100 S (if taken with PHYS 2A), PHYS 110. * *PHYS 2A, 2B or PHYS 1A, 1B, 1C, 1D combined: maximum UC credit, one series.*

Degree Applicable, Credit Grading Option: GR

PHYS 10 DESCRIPTIVE PHYSICS 3 UNITS

Motion, gravitation, heat, light, sound, electricity, magnetism, atoms, and nuclei. Present-day scientific problems and developments such as alternative energy sources, solar energy, nuclear power, lasers, relativity and black holes. Designed for non-majors in physical science. Prerequisite: MATH 55 with a minimum grade of C. 54 hours lecture. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B1; IGETC: 5A. * *No UC credit for PHYS 10 or 10L if taken after PHYS 1A or 2A.*

Degree Applicable, Credit Grading Option: GR

PHYS 10L DESCRIPTIVE PHYSICS LAB 1 UNIT

Introduction to laboratory principles and techniques with emphasis

on the basic concepts of physics such as mechanics, thermodynamics, energy, electricity, magnetism, and optics. Prerequisite: MATH 55 with a minimum grade of C. Corequisite: PHYS 10 (may also be taken after successful completion of PHYS 10). 54 hours laboratory. AA/AS GE: II. Transfer: CSU, UC*; CSU GE: B3; IGETC: 5C. * *No UC credit for PHYS 10 or 10L if taken after PHYS 1A or 2A.*

Degree Applicable, Credit Grading Option: GR

PHYS 29 INDEPENDENT STUDY, PHYSICS 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

Grading Option: GR

POLITICAL SCIENCE

Political Science students study public issues of the day, as well as the timeless issues of government, public policy, and the political process as preparation for a wide variety of careers. At Las Positas College, courses cover the full spectrum of the political science discipline: American Government, California State and Local Government, Comparative Government, Political Theory, Gender, Sexuality, & Politics and International Relations. The academically rigorous program provides opportunities for learning about the political process, fulfilling general education requirements, as well as preparation for transfer, fulfilling the typical lower-division requirements at a four-year institution. The course curriculum is designed for building critical thinking and analytical skills necessary for a variety of careers but also offers avenues for students to actively participate in the political process.

Programs of Study

Degrees:

- AA-T – Political Science

AA-T – Political Science

About the Degree

The Las Positas College Political Science program offers courses that lead to an Associate of Arts in Political Science for Transfer Degree. Students will have guaranteed admission to a California State University (CSU) campus upon successful completion of the program requirements. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

- a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education - Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AA-T in Political Science, students are able to analyze and assess various types of sources in the discipline.
- Upon completion of the AA-T in Political Science, students are able to demonstrate an understanding of socioeconomic and/or political power disparities existing along the lines of identities such as race, class, gender, sexuality, legal status, and religion.
- Upon completion of the AA-T in Political Science, students are able to demonstrate understanding and application of theories and concepts in political science to contemporary political phenomenon.
- Upon completion of the AA-T in Political Science, students are able to research, synthesize, and argue a political thesis.

Required Core: (4 Units)

POLI 7 (Introduction to American Government) 4

List A: Select Three (9-10 Units)

MATH 40 (Statistics and Probability) 4
 POLI 20 (Comparative Government)..... 3
 POLI 25 (Introduction to Political Theory)..... 3
 POLI 30 (International Relations)..... 3

List B: Select Two (6-7 Units)

Any List A course not already used..... 3-4
 HIST 7 (US History Through Reconstruction)..... 3
 HIST 8 (US History Post-Reconstruction)..... 3
 POLI 12 (Introduction to California State and Local Government) .3
 SOC 5 (Introduction to Global Studies) 3

Total Units for the Major 19-20

Additional General Education and Elective Units40-41

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Political Science Courses (POLI)

POLI 7 INTRODUCTION TO AMERICAN GOVERNMENT 4 UNITS

Introduction to the principles, problems and basic issues of government with particular emphasis on the national government in the United States, including discussion of the American Constitution, and California state and local government. Strongly Recommended: Eligibility for ENG 1A. 72 hours lecture. AA/AS GE: IV, VI. Transfer: CSU, UC; CSU GE: D8; CSU AI: US2, US3; IGETC: 4H; C-ID# POLS 110.

Degree Applicable, Credit Grading Option: OP

POLI 12 INTRODUCTION TO CALIFORNIA STATE AND LOCAL GOVERNMENT 3 UNITS

Organization and operation of government and politics at the state, county and municipal level; emphasis on current issues and the influences of historical, geographical, political, economic and social factors on public policy. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: IV, AC. Transfer: CSU, UC; CSU GE: D8; IGETC: 4H.

Degree Applicable, Credit Grading Option: OP

POLI 20 COMPARATIVE GOVERNMENT 3 UNITS

Contemporary forms of government, institutions and political problems of selected national governments. Strongly Recommended: POLI 7 with a minimum grade of C, Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D8; IGETC: 4H; C-ID# POLS 130.

Degree Applicable, Credit Grading Option: OP

POLI 25 INTRODUCTION TO POLITICAL THEORY 3 UNITS

Various theoretical approaches to politics including selected aspects of political thought from ancient times to the present with application of current political thought. Strongly Recommended: Eligibility for ENG 1A, POLI 7 with a minimum grade of C. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D8; IGETC: 4H; C-ID# POLS 120.

Degree Applicable, Credit Grading Option: OP

POLI 26 INTRODUCTION TO GENDER, SEXUALITY, AND POLITICS 3 UNITS

Gender, Sexuality, and Politics illustrates that politics involves more than the institutions of government and representation. Politics also revolves around social, cultural, economic, and legal structures as well. The course examines the impact of politics on the lives of cis women and LGBTQ people and their reciprocal impact on politics, primarily in United States but contextualized using intersectional and comparative methods. Students will think critically about the theories and relationship of gender, sexuality, and power. Assessment of the role and impact of individuals, groups, and cultural attitudes and traditions involved in the women's and LGBTQ rights movements, exploring the debates over theory and strategy that have worked to their advantage and disadvantage to achieve social policy aimed at bringing equality. The course uses historical and topical approaches, analyzing the struggles for gaining a political voice and participation, with discussion of public policies, and a critique of contemporary

issues and self-perceptions that affect cis women and LGBTQ people's political rights. Strongly Recommended: POLI 7 with a minimum grade of C. AA/AS GE: IV, AC. Transfer: CSU, UC; CSU GE: D; IGETC: 4.

Degree Applicable, Credit Grading Option: OP

**POLI 29 INDEPENDENT STUDY, 0.5-2 UNITS
POLITICAL SCIENCE**

For course information, see "Independent Studies". 27-108 hours laboratory.

POLI 30 INTERNATIONAL RELATIONS 3 UNITS

Introduction to international relations, politics, theories and institutions with an emphasis on contemporary practices. Strongly Recommended: POLI 7 with a minimum grade of C, Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D8; IGETC: 4H; C-ID# POLS 140.

Degree Applicable, Credit Grading Option: OP

PSYCHOLOGY

Psychology is the science of behavior and mental experiences. Psychology includes a variety of subfields including biological, developmental, clinical, counseling, school, and experimental psychology.

Programs of Study

Degrees:

- AA-T – Psychology

Career Opportunities

The Las Positas Psychology program offers an AA-T degree that provides students with a basic understanding of behavior and motivation that is valuable in many careers in business, government, and education. To become a psychologist, however, requires graduate

AA-T – Psychology

About the Degree

The Associate in Arts in Psychology for Transfer is to assist students in transferring into the California State University System. Students completing the AA-T degree receive a guarantee of admission with junior status into the California State University System. The CSU system is required to grant priority admission for a student with this associate degree to a CSU campus and to a program or major that is similar to their community college major or area of emphasis, as determined by the CSU campus to which the student is admitted. In addition, a student shall receive priority over all other community college transfer students, excluding community college students who have entered into a transfer agreement between a community college and the California State University. Students who complete the program will have a basic understanding of psychological theory, skills and methods relevant to conducting rigorous psychological

research, and critical knowledge of various substantive topics of psychology.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education - Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district..
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AA-T in Psychology, students are able to demonstrate effective written and oral communication for different purposes and audiences.
- Upon completion of the AA-T in psychology, students are able to apply psychological content for personal, professional, and lifelong learning goals.
- Upon completion of the AA-T in Psychology, students are able to apply ethical standards to evaluate psychological science and practice in a diverse community at the local, national, and global levels.
- Upon completion of the AA-T in psychology, students are able to describe key concepts, principles, and themes in psychology and apply empirical findings.
- Upon completion of the AA-T in Psychology, students are able to use scientific thinking and information literacy to interpret, design, and conduct psychological research.

Required Core: (11 Units)

MATH 40 (Statistics and Probability)	4
PSYC 1 (General Psychology).....	3
PSYC 25 (Research Methods).....	4

List A: Select One (3-4 Units)

BIO 10 (Introduction to the Science of Biology)	4
BIO 30 (Introduction to College Biology).....	4
PSYC 4 (Brain, Mind, and Behavior)	3

List B: Select One (3-4 Units)

Any List A course not already used.....	3-4
PSYC 3 (Introduction to Social Psychology)	3
PSYC 12 (Life-Span Psychology).....	3

List C: Select One (3-5 Units)

Any List A or B course not already used	3-4
ANTR 1 (Biological Anthropology)	3
ANTR 3 (Cultural Anthropology)	3

MATH 1 (Calculus I).....	5
PSYC 6 (Abnormal Psychology)	3
PSYC 10 (Psychology of Human Sexuality)	3
PSYC 13 (Psychology of Women).....	3
PSYC 15 (Abnormal Child Psychology)	3
PSYC 17 (The Psychology of Sleep and Dreams).....	3
PSYC 21 (Introduction to Cross-Cultural Psychology)	3
SOC 1 (Principles of Sociology)	3

Total Units for the Major20-24

Additional General Education and Elective Units..... 36-40

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Psychology Courses (PSYC)

PSYC 1 GENERAL PSYCHOLOGY 3 UNITS

Introduces students to the scientific study of human behavior and mental processes. Provides an overview of major psychological concepts and theories in such areas as consciousness, learning, memory, motivation, perception, personality, stress, and social behavior. Strongly Recommended: Eligibility for ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D9; IGETC: 4I; C-ID# PSY 110.

Degree Applicable, Credit Grading Option: OP

PSYC 3 INTRODUCTION TO SOCIAL PSYCHOLOGY 3 UNITS

This course will introduce theories and concepts that explain individual behavior in social settings. The topics include research methods, social perception, social cognition, beliefs, prejudice/discrimination, interpersonal relationships, aggression, and group behavior. Strongly Recommended: PSYC 1 with a minimum grade of C. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D9; IGETC: 4I; C-ID# PSY 170.

Degree Applicable, Credit Grading Option: OP

PSYC 4 BRAIN, MIND, AND BEHAVIOR 3 UNITS

Introduction to the field of biopsychology. The biopsychology of cognitive, perceptual, emotional, developmental, and social processes. Includes the biopsychology of personality, gender, emotions, learning, learning disabilities, drugs, neurological and developmental disorders, and mental health. Examination of information and theory for practical application. Prerequisite: PSYC 1 with a minimum grade of C. 54 hours lecture. AA/AS GE: II, IV. Transfer: CSU, UC; CSU GE: B2, D9; IGETC: 4I, 5B; C-ID# PSY 150.

Degree Applicable, Credit Grading Option: OP

PSYC 6 ABNORMAL PSYCHOLOGY 3 UNITS

An introduction to mental health and the major mental health disorders in adults and children; includes anxiety, mood, personality, sexual, and psychotic disorders. The course will include the study of the major psychological, biological, and sociocultural models of mental health disorders and their treatment. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D9; IGETC: 4I; C-ID# PSY 120.

Degree Applicable, Credit Grading Option: OP

PSYC 10 PSYCHOLOGY OF HUMAN SEXUALITY 3 UNITS

Physiological and psychosocial aspects of sexual health in our contemporary society. Understanding the interrelationship of attitude and behavior as it relates to sexual well-being and sexual integrity. 54 hours lecture. AA GE: VB. Transfer: CSU, UC; CSU GE: E; C-ID# PSY 130.

Degree Applicable, Credit Grading Option: OP

PSYC 12 LIFE-SPAN PSYCHOLOGY 3 UNITS

Introduction to the psychological, physiological, and socio-cultural factors influencing development from conception through death. Emphasis on the process of normal development and its variations. Examination of theoretical models and research for practical application. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D9, E; IGETC: 4I; C-ID# PSY 180.

Degree Applicable, Credit Grading Option: OP

PSYC 13 PSYCHOLOGY OF WOMEN 3 UNITS

This course examines the diverse experiences of women from a psychological perspective. Students will explore psychological theory and research on gender and issues that affect women, and will gain insight into how psychologists investigate gender-related issues. Strongly Recommended: PSYC 1 with a minimum grade of C. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D4, D9; IGETC: 4D, 4I.

Degree Applicable, Credit Grading Option: OP

PSYC 15 ABNORMAL CHILD PSYCHOLOGY 3 UNITS

An exploration of the emotional, cognitive, developmental, and behavioral problems of childhood and adolescence. Topics include: common stresses and problems of adjustment; the effects of stress, abuse, and traumas on development; intellectual disability, autistic spectrum disorder, and other developmental disabilities; normal and abnormal problems of attention, conduct, mood, anxiety, sleep, eating, sex, learning and speech. Examination of the causes of mental health problems in children and adolescents and approaches to treatment. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D7, D9; IGETC: 4G, 4I.

Degree Applicable, Credit Grading Option: OP

PSYC 17 THE PSYCHOLOGY OF SLEEP AND DREAMS 3 UNITS

An introduction to the scientific study of sleep and dreams. Major historic, modern, multicultural views and theories of sleep and dreams; research methods in the study of sleep and dreams; the biological basis of sleep and dreams; biological rhythms; individual

differences in biological rhythms; the stage and cycles of sleep; sleep requirements and changes across the lifespan; sleep deprivation and its effects on cognitive, emotional, behavioral functioning and health; the role of sleep and dreams in mental health; the relationship between sleep and daytime alertness and performance; theories of dream content, function, and meaning; dreaming and creativity; and lucid dreaming; sleep disorders, their characteristics and treatments. Examination of information and theories for practical application. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

PSYC 21 INTRODUCTION TO CROSS-CULTURAL PSYCHOLOGY 3 UNITS

This course is an introduction to cross-cultural identities, which focuses on the way culture influences human behavior and shapes mental processes. We will study a variety of ethnic, social, and cultural group developmental norms and the extent of influence these norms may have on an individual. This course seeks to strengthen diversity awareness and knowledge by bringing awareness to the importance of engaging in difficult discussions. This course will review a broad range of theories and research findings regarding cultural influences on human behavior and cognitive process. Topics covered include development of an individual worldview, identity development, stereotypes, prejudice, discrimination, racism, sexism, heterosexism, ableism, ageism, immigration & acculturation, privilege, oppression and cross-cultural issues in psychological literature. Students who have completed, or are enrolled in, ETHS 5 may not receive credit. Strongly Recommended: PSYC 1 with a minimum grade of C. 54 hours lecture. AA/AS GE: IV, AC. Transfer: CSU, UC; CSU GE: D; IGETC: 4.

Degree Applicable, Credit Grading Option: OP

PSYC 25 RESEARCH METHODS 4 UNITS

Introduction to the use of the scientific method in the study of human and animal behavior. Coverage of descriptive, experimental, and non-experimental methods commonly used in psychological research. Topics will include ethical principles in research, hypothesis development and testing, observational methods, survey research, the fundamentals of experimental design, basic data analysis, and the presentation of research findings. Prerequisite: PSYC 1 with a minimum grade of C, MATH 40 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D9; IGETC 4I; C-ID# PSY 200, PSY 205 B.

Degree Applicable, Credit Grading Option: OP

PSYC 27 INTRODUCTION TO COGNITIVE SCIENCE 3 UNITS

An introduction to the interdisciplinary field of cognitive science. Basic issues related to cognition, including perception, memory, language, learning, problem solving, spatial cognition, attention, mental imagery, consciousness, brain damage, development, and artificial intelligence, are considered from the perspectives of psychology, philosophy, computer science, and neuroscience. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D; IGETC: 4.

Degree Applicable, Credit Grading Option: OP

PSYC 29 INDEPENDENT STUDY, 0.5-2 UNITS

PSYCHOLOGY

For course information, see "Independent Studies". 27-108 hours laboratory.

PSYCHOLOGY-COUNSELING

Psychology-Counseling courses were developed to help educate students About the Departments and resources of Las Positas College. Some courses enable students to explore and develop a personal career and education plan, explore options for transferring to a baccalaureate degree-granting college or university, and improve and enhance study skills and financial literacy for success in college. Other courses are also offered to increase students' knowledge in multiculturalism. Additionally, these courses provide students with a means to learn theoretical knowledge, gain hands-on experience, and explore career opportunities in the field of Health and Human Services.

Programs of Study

Degrees:

- AA-T – Social Work and Human Services

AA-T – Social Work and Human Services

About the Degree

The Las Positas College Social Work and Human Services program offers courses that lead to an Associate in Social Work and Human Services for Transfer degree. The major requirements for this degree are designed to ensure that students are well-prepared for transfer and for work in the human services field, providing students with the fundamental understanding of the principles of Social Work and Human Services as well as experience in the application of these principles. Participation in Social Work and Human Services classes develops critical thinking, personal growth, cultural sensitivity, active listening, problem sensitivity, presentation skills, and an understanding of the theories, perspectives, principles, and concepts behind Social Work and Human Services. Students will have guaranteed admission to a California State University (CSU) campus in a similar major upon successful completion of the program requirements. Students should speak with a counselor to determine whether or not this degree is the best option for their transfer goals.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education - Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units

in a major or area of emphasis, as determined by the community college district.

2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AA-T in Social Work and Human Services, students are able to demonstrate a foundational understanding of social work and human services outlining the evolution of social welfare and human services in the U.S.
- Upon completion of the AA-T in Social Work and Human Services, students are able to critically analyze societal factors that create and contribute to social service needs.
- Upon completion of the AA-T in Social Work and Human Services, students are able to demonstrate an understanding of cultural sensitivity and systems of oppression/privilege as a foundation to success in the fields of social work and human services.
- Upon completion of the AA-T in Social Work and Human Services, students are able to demonstrate knowledge and understanding of theoretical perspectives, legal and ethical principles and social issues related to social work and human services fields.

Required Core: (22-23 Units)

BIO 10 (Introduction to the Science of Biology) or BIO 20 (Contemporary Human Biology) or BIO 30 (Introduction to College Biology) or BIO 50 (Anatomy and Physiology).....	3-4
ECON 1 (Principles of Microeconomics) or ECON 2 (Principles of Macroeconomics)	3
MATH 40 (Statistics and Probability)	4
PCN 5 (Introduction to Social Work and Human Services)	3
PCN 50 (Fieldwork Seminar: Social Work and Human Services).....	2
PCN 50L (Fieldwork/Practicum: Social Work and Human Services)	1
PSYC 1 (General Psychology).....	3
SOC 1 (Principles of Sociology)	3

List A: Select Two (6 Units)

AJ 50 (Intro to Admin of Justice)	3
AJ 56 (Fundamentals of Crime and Delinquency)	3
ANTR 3 (Cultural Anthropology)	3
CMST 11 (Intercultural Communication).....	3
ECE 56 (Child Growth and Development).....	3
ECE 62 (Child, Family and Community)	3
PCN 13 (Multicultural Issues in Contemporary America).....	3
PCN 35 (Drugs, Health, and Society).....	3
PSYC 6 (Abnormal Psychology)	3
PSYC 12 (Life-Span Psychology).....	3
SOC 3 (Cultural and Racial Minorities)	3
SOC 6 (Social Problems)	3

Total Units for the Major 28-29

Additional General Education and Elective Units 31-32

Total Units..... 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Psychology – Counseling Courses (PCN)

PCN 3 THEORIES AND CONCEPTS OF COUNSELING: AN INTRODUCTION 3 UNITS

This is an introductory course to the theories and concepts, as well as the historical foundations of counseling with an emphasis on fundamental principles of the therapeutic process. There will be a major focus on multicultural principles and major diagnostic categories, problems, and solutions relating to recovery in counseling. Ethics in counseling, as well as legal implications will also be introduced and examined. 54 hours lecture. AA/AS GE: IV, AC. Transfer: CSU; CSU GE: D7, D9.

Degree Applicable, Credit Grading Option: OP

PCN 5 INTRODUCTION TO SOCIAL WORK AND HUMAN SERVICES 3 UNITS

An introductory overview of social welfare and the societal institutions in the U.S. that structure the provision of social services. The course presents a historical perspective on the development of U.S. social work and human services. Special attention is given to the evolution of social welfare programs and institutions, major U.S. court decisions, contemporary social problems, current service delivery systems, policies, procedures, and the tasks of culturally responsive social workers and human service workers within those settings. Strongly Recommended: ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

PCN 10 CAREER AND EDUCATIONAL PLANNING 2 UNITS

Exploration of the concept of career, educational and life planning focusing on personal career development through self-assessment. Emphasis on clarification of individual interests, values, needs, abilities and decision making styles, investigation of occupational opportunities in the world of work, and introduction to job search strategies, resume writing and interview skills. Designed for those undecided or uncertain about their career and educational plans. 36 hours lecture. Transfer: CSU; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

PCN 13 MULTICULTURAL ISSUES IN CONTEMPORARY AMERICA 3 UNITS

Exploration of issues relating to the multicultural community in which we live today. Interpersonal relations and communication.

Focus on improving individuals understanding of other cultures and how those cultures impact the American lifestyle. Includes exploration of myths and misunderstandings. Discussion of four specific cultures or sub-cultures from the following groups: 1) African-American 2) Asian-American, 3) Hispanic-American, 4) Native-American, 5) Middle Eastern-American, 6) European-American, 7) Gay/Lesbian American, 8) Disabled American. 54 hours lecture. AA/AS GE: IV, AC. Transfer: CSU, UC; CSU GE: D3, D7; IGETC: 4C, 4G.

Degree Applicable, Credit Grading Option: OP

PCN 15 COLLEGE STUDY SKILLS 2 UNITS

A review of study skill techniques for success in college. Topics include college culture and resources, time management, personal learning style, organization, note-taking and test-preparation strategies. Includes practice and evaluation of study skill techniques. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

PCN 18 UNIVERSITY TRANSFER PLANNING 1 UNIT

Introduction to the resources and planning process needed to ease transition from community college to a four-year college or university. Development of a transfer action plan. Preparation for major and general education requirements. Application cycles and important deadlines. Recommended for those transferring to four-year colleges or universities. 18 hours lecture. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

PCN 25 TRANSITION TO COLLEGE 0.5 UNITS

A survey of practical strategies for academic success focusing on the new student. Examines goal setting, college policies, graduation requirements, campus resources, student's rights and responsibilities, and student educational planning. Designed for first time college students in order to enhance their transition into college and maximize their academic/career technical potential. 9 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

PCN 28 ORIENTATION FOR INTERNATIONAL STUDENTS 1 UNIT

Exploration of practical strategies for academic success and to experience a positive transition into the American educational system and culture focusing on the new international student. Examines goal setting, cultural adjustment, college policies, graduation requirements, campus resources, programs and services, student rights and responsibilities, introduction to the California systems of higher education, student educational planning and other topics as needs are identified. Designed for first time international college students in order to enhance their transition into American society and maximize successful matriculation through college toward their academic goals. 18 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

PCN 30 STUDENT SUCCESS AND THE COLLEGE EXPERIENCE 3 UNITS

This course explores concepts, knowledge, and skills relevant to college success. Students will engage in critical analysis on a variety of topics, including motivation, decision making, interpersonal communication, multicultural awareness, and learning theory. Problem solving strategies will be applied to areas including goal setting, career development, wellness, and accessing campus resources. 54 hours lecture. Transfer: CSU, UC*; CSU GE: E. *KIN 16 and PCN 30 combined: maximum UC credit, 3 units.

Degree Applicable, Credit Grading Option: OP

PCN 35 DRUGS, HEALTH, AND SOCIETY 3 UNITS

This course provides an overview of the epidemiology and toxicology of substance abuse and its relevance to personal and public health. Students will be introduced to the concept of substance abuse and dependence, the definition of licit and illicit drugs, and the pharmacologic, neurologic and physiologic effects of selected substances on the human brain. Political, social and economic factors involved in the supply and demand for drugs will be discussed. Epidemiologic data on the prevalence, incidence, and trends of smoking, alcohol, prescription and other drug dependencies in the U.S. will be covered, as well as risk factors associated with the use and abuse of these substances. Current options for recovery and a survey of local resources will be reviewed. Strongly Recommended: Eligibility for ENG 1A/1AEX. 54 hours lecture. AA/AS GE. Transfer: CSU, UC; C-ID# PHS 103.

Degree Applicable, Credit Grading Option: OP

PCN 50 FIELDWORK SEMINAR: SOCIAL WORK AND HUMAN SERVICES 2 UNITS

This course offers the student a supervised field experience in a community organization, agency, or institution, allowing the student to gain knowledge of the social services career field and learn new skills which can be applied in the fieldwork setting. Weekly class meetings provide the academic element to this experiential course offering and reinforcing the application of concepts gained in the prerequisite and corequisite course. This course is designed to provide the student with an opportunity to develop skills that would facilitate gaining employment in the human services field. Prerequisite: PCN 5 with a minimum grade of C. Corequisite: PCN 50L. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

PCN 50L FIELDWORK/PRACTICUM: SOCIAL WORK AND HUMAN SERVICES 1 UNIT

This course provides an introduction to fieldwork participation in the area of Social Work/Human Services (community organization, agency, or institution) allowing the student to apply knowledge and learn new skills outside of the classroom environment. This course is designed to provide the student with an opportunity to develop skills in preparation for gaining employment in the human services field. Students will be required to participate in a minimum of 60 hours of fieldwork per term. Corequisite: PCN 50. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

RADIATION SAFETY

The Radiation Safety sequence is a modularized series of courses designed to provide basic radiation safety instruction. Knowledge gained from taking the sequence of classes includes identification of the sources of radiation and radioactive materials, the nature of ionization radiation, biological effects, risk assessment, protection strategies, environmental impacts, and waste handling.

Career Opportunities

The Radiation Safety sequence of classes could be taken by students seeking, with further study, careers in radiology, radiation safety, occupational safety and health, industrial hygiene, certified safety professional, emergency response, and hazardous materials control.

Radiation Safety Courses (RADS)

RADS 40A RADIATION SAFETY 2 UNITS

A course designed to provide basic radiation safety instruction. Includes identification of the sources of radiation and radioactive materials, the nature of ionization radiation, biological effects, and risk assessment. Strongly Recommended: MATH 110 with a minimum grade of C or MATH 110B with a minimum grade of C. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

RADS 40B EMERGENCY RESPONSE AND MONITORING 1 UNIT

A course designed to provide overview and understanding of radiological emergencies and instrumentation. Builds upon principles, concepts, and terminology from 40A, and introduces practical use of radiological survey equipment. Prerequisite: RADS 40A with a minimum grade of C. 18 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

RADS 40C SAFETY CONTROLS AND REGULATION 1 UNIT

A course designed to provide further understanding of radiological controls, regulations, environmental impacts, and waste management. Prerequisite: RADS 40A with a minimum grade of C or Instructor Approval. 18 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

RELIGIOUS STUDIES

Religious Studies is a discipline that is inherently interdisciplinary and intercultural. The Religious Studies courses provide students with an opportunity to explore the distinctive institutions, beliefs, rituals, myths, sacred writings, and ethics of many of our world's diverse religions, cultures and civilizations. The Religious Studies course offerings include an introductory survey course that allows students to explore the wide range of beliefs, spiritual practices and sacred writings of our world's religions. Additionally, students can take courses in The Bible, Islam and Women's Spirituality as part of the Religious studies curriculum. The courses offered in Religious Studies invite students to develop a deeper appreciation of the ways in which humanity has understood the sacred, our world and our place within it. Religious studies courses can be taken in any order and satisfy the same GE requirements.

Religious Studies Courses (RELS)

RELS 1 RELIGIONS OF THE WORLD 3 UNITS

Introduction to religion by examining several religions; basic principles of each shown by fundamental scriptures and works in the visual and musical arts. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: OP

RELS 2 BIBLE: HISTORY AND LITERATURE 3 UNITS

Study of the historical context and literary forms of the Hebrew Bible and New Testament. Emphasis on social, political and economic origins of the works, their literary motifs, and how their creation reflected ongoing cultural values. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: OP

RELS 3 INTRO TO WOMEN'S SPIRITUALITY 3 UNITS

An interdisciplinary and cross-cultural examination of women's spirituality with particular reference to women's contributions and influence in redefining feminine aspects of the divine. Examines the use of feminine experience as a primary construct for understanding the connection between women's spirituality and the sacred. This course will also explore how issues of gender, culture, and identity influence women's religious experiences. Explores religious texts, rituals, music, poetry and film. 54 hours lecture AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: OP

RELS 11 THE NATURE OF ISLAM 3 UNITS

Introduction to the nature of Islam as a religion or system for life, its culture and its impact on Muslim individuals and groups. Includes a

brief history of Islam and Muslims in relation to the basic sources of Islam. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: OP

SOCIOLOGY

Sociology is the study of social life, social change, and the social causes and consequences of human behavior. Courses in Sociology are designed to prepare students for further study in Sociology leading to the BA, MA, MSW, and/or PhD degrees.

Programs of Study

Degrees:

- AA-T – Sociology

Career Opportunities

Sociologists with graduate degrees may teach at the high school, college, or graduate levels. They may also become Research Sociologists in both the public and private sectors and work in areas of public policy, the law, and international studies. Applied Sociologists may work with social service agencies and community programs on behalf of others—often underrepresented or neglected groups.

AA-T – Sociology

About the Degree

The Associate in Arts in Sociology for Transfer program prepares students for a seamless transfer a CSU for continued study in sociology and other various fields of social science. Students who complete the program will have a basic understanding of sociological theory, skills and methods relevant to conducting rigorous sociological research, and critical knowledge of various substantive topics of sociology such as race, gender, class, sexuality, family, culture, globalization, and social problems.

Completion Requirements:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education - Breadth Requirements.
 - A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C" (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of AA-T in Sociology, students are able to analyze and describe the major concepts, theoretical perspectives, empirical findings, and historical trends in sociology.
- Upon completion of AA-T in Sociology, students are able to demonstrate critical thinking and analytic skills in the application of social theory to solve problems that arise in institutional and societal contexts.

Required Core: (10-11 Units)

SOC 1 (Principles of Sociology) 3

Select Two

MATH 40 (Statistics and Probability) 4

SOC 6 (Social Problems) 3

SOC 13 (Research Methods) 4

List A: Select Two (6-7 Units)

Any Required Core not already used 3-4

PSYC 3 (Introduction to Social Psychology) 3

SOC 3 (Cultural and Racial Minorities) 3

SOC 4 (Marriage and Family Relations) 3

SOC 7 (Sociology of Sexuality) 3

SOC 11 (Sociology of Gender) 3

List B: Select One (3-4 Units)

Any course not already used 3-4

ANTR 3 (Cultural Anthropology) 3

PSYC 1 (General Psychology) 3

SOC 5 (Introduction to Global Studies) 3

SOC 12 (Popular Culture) 3

Total Units for the Major 19-20

Additional General Education and Elective Units 40-41

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses.

Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Sociology Courses (SOC)

SOC 1 PRINCIPLES OF SOCIOLOGY 3 UNITS

The sociological perspective: scientific study of human interaction and society as a whole with emphasis on impact of groups on social behavior; systematic examination of culture and social organization, and methodology. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D0; IGETC: 4j; C-ID# SOCI 110.

Degree Applicable, Credit Grading Option: GR

SOC 3 INTRODUCTION TO RACE AND ETHNICITY 3 UNITS

Racial and ethnic relations in the United States. Examines the cultural, political, and economic practices and institutions that support or challenge racism, racial and ethnic inequalities, as well as patterns of interaction between various racial and ethnic groups. Students who have completed, or are enrolled in, ETHS 6 may not receive credit. Strongly Recommended: SOC 1 with a minimum grade of C. 54 hours lecture. AA/AS GE: IV, AC. Transfer: CSU, UC; CSU GE: D0, D3; IGETC: 4J; C-ID# SOCI 150.

Degree Applicable, Credit Grading Option: OP

SOC 4 MARRIAGE AND FAMILY RELATIONS 3 UNITS

Sociological perspective of the family including mate selection, marital roles, marital adjustment, sexual adjustment, reproduction, child rearing, marital dissolution, and problems associated with the family in modern industrial society. Strongly Recommended: SOC 1 with a minimum grade of C. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D0, E; IGETC: 4J; C-ID# SOCI 130.

Degree Applicable, Credit Grading Option: GR

SOC 5 INTRODUCTION TO GLOBAL STUDIES 3 UNITS

This course looks at the economic and political forces that have led to rapid changes in global interaction and culture over the past century, with special emphasis on the last twenty years. It explores the issues of nationalism, global citizenry, state violence, terrorism, the global economy, migration, the threatened environment, technology, and the role of multinational media industries on culture. Students who have completed, or are enrolled in, GS 1 may not receive credit. Strongly Recommended: SOC 1 with a minimum grade of C, ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D; IGETC: 4.

Degree Applicable, Credit Grading Option: GR

SOC 6 SOCIAL PROBLEMS 3 UNITS

An identification and analysis of contemporary social problems including (1) the role of power and ideology in the definition of social problems, (2) their causes and consequences, (3) evaluations of proposed solutions, and (4) methods of intervention. Topics will vary. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D0; IGETC: 4J; C-ID# SOCI 115.

Degree Applicable, Credit Grading Option: OP

SOC 7 SOCIOLOGY OF SEXUALITY 3 UNITS

This course looks at the social forces that influence, and are influenced by our construction of sexuality. Topics covered include: the social construction of the erotic, the creation of sexual identities, gender and sexuality, religion and sexuality, sexual commerce, and global issues such as birth control and STDs. Strongly Recommended: SOC 1 with a minimum grade of C. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D, E; IGETC: 4.

Degree Applicable, Credit Grading Option: GR

SOC 11 SOCIOLOGY OF GENDER 3 UNITS

This course examines the social construction of masculinity and femininity historically and cross-culturally. It analyzes the impact of economic and political change on gender expectations and practices. This class focus includes both macro-analysis of how institutions shape gender and microanalyses of how individuals "do" or practice gender. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D0, D4; IGETC: 4J; C-ID# SOCI 140.

Degree Applicable, Credit Grading Option: OP

SOC 12 POPULAR CULTURE 3 UNITS

The course explores the historical, theoretical, political, and economic factors that influence the creation and diffusion of popular culture. It examines the impact of technological innovation and globalization on how popular culture is consumed and how this affects society. Strongly Recommended: SOC 1 with a minimum grade of C. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D0; IGETC: 4J.

Degree Applicable, Credit Grading Option: OP

SOC 13 RESEARCH METHODS 4 UNITS

This course orients students to the methods of data collection and analysis used by sociologists. Instruction includes an overview of sociological theory, instruction on experimental methods, surveys, interviews, field research, participant observation, demographic methods, and comparative historical approaches. Prerequisite: SOC 1 with a minimum grade of C. Strongly Recommended: MATH 40 with a minimum grade of C. 54 hours lecture, 54 hours laboratory. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D0; IGETC: 4J; C-ID# SOCI 120.

Degree Applicable, Credit Grading Option: OP

SOC 29 INDEPENDENT STUDY, SOCIOLOGY 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

SPANISH

The Foreign Language program offers primarily first- and second-year transfer-level courses in American Sign Language, Spanish, French, and Italian. Some courses are scheduled on a rotating basis. The transfer-level courses are designed to prepare students to continue with their language studies in upper-division courses after leaving Las Positas College. In addition, there is an emphasis on learning about the culture of the people who speak the individual languages.

Programs of Study

Degrees:

- AA-T – Spanish

Certificates of Achievement:

- Spanish

AA-T – Spanish

About the Degree

The Las Positas College Spanish program offers courses that lead to an Associate in Arts in Spanish for Transfer Degree. The major requirements for the Associate in Arts in Spanish for Transfer Degree align with the Intersegmental Transfer Model Curriculum (TMC) for Spanish. Students will have guaranteed admission to a California State University (CSU) campus upon successful completion of the program requirements. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education - Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C" (or "P") or better in all courses required for the major or area of emphasis.

Program Outcomes

- Upon completion of the AA-T in Spanish, students are able to demonstrate oral competence in the Spanish Language by using correct grammar, vocabulary, and appropriate register.
- Upon completion of the AA-T in Spanish, students are able to demonstrate written competence in the Spanish language by using correct grammar, vocabulary, and appropriate register.
- Upon completion of the AA-T in Spanish, students are able to have a clear understanding of the cultures of the Spanish-speaking world.
- Upon completion of the AA-T in Spanish, students are able to analyze and interpret Spanish texts according to their cultural, literary and/or linguistic content.

Required Core: (21-23 Units)

SPAN 1A (Beginning Spanish).....	5
SPAN 1B (Elementary Spanish)	5
SPAN 2A (Intermediate Spanish I) or SPAN 21 (Spanish for Spanish Speakers I)	4-5
SPAN 2B (Intermediate Spanish II) or SPAN 22 (Spanish for Spanish Speakers II)	4-5
SPAN 23 (Introduction to Hispanic Literature)	3

Total Units for the Major 21-23

Additional General Education and Elective Units 37-39

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Spanish

About the Certificate

The Certificate of Achievement in Spanish is designed to for students who wish to gain a command of the Spanish language and understand the complex interdependence of the language and cultures of the Spanish-speaking world. This certificate is applicable to students who are planning to pursue a Spanish major or minor at a four year college or university. This certificate is also appropriate for students who are currently employed or seeking employment in an area involving the use of Spanish. Students who successfully complete this certificate will be able to use the target language to communicate with Spanish speaking colleagues or customers. Students could include the Certificate on their resume and in a portfolio, indicating a conversational level of Spanish language proficiency.

Program Outcomes

- Upon completion of the Certificate of Achievement in Spanish, students are able to demonstrate oral competence in the Spanish Language by using correct grammar, vocabulary, and appropriate register.
- Upon completion of the Certificate of Achievement in Spanish, students are able to demonstrate written competence in the Spanish language by using correct grammar, vocabulary, and appropriate register.
- Upon completion of the Certificate of Achievement in Spanish, students are able to have a clear understanding of the cultures of the Spanish-speaking world.
- Upon completion of the Certificate of Achievement in Spanish, students are able to analyze and interpret Spanish texts according to their cultural, literary and/or linguistic content.

Required Core: (21-23 Units)

SPAN 1A (Beginning Spanish).....	5
SPAN 1B (Elementary Spanish)	5
SPAN 2A (Intermediate Spanish I) or SPAN 21 (Spanish for Spanish Speakers I)	4-5
SPAN 2B (Intermediate Spanish II) or SPAN 22 (Spanish for Spanish Speakers II)	4-5
SPAN 23 (Introduction to Hispanic Literature)	3

Total Units 21-23

Spanish Courses (SPAN)

SPAN 1A BEGINNING SPANISH 5 UNITS

This introductory level course offers a balanced approach to language and culture. It will enable students to begin speaking, reading and writing elementary level Spanish as well as understanding the spoken language as they explore the culture and countries of the Spanish-speaking world. Students are introduced to concepts of grammar, vocabulary and verb tenses in a variety of auditory, visual and written contexts. Strongly Recommended: ENG 1A with a minimum grade of C. 90 hours lecture. AA/AS GE: IB, . Transfer: CSU, UC; IGETC: 6A; C-ID# SPAN 100.

Degree Applicable, Credit Grading Option: OP

SPAN 1B ELEMENTARY SPANISH 5 UNITS

This is the second semester of the introductory level course. It continues to offer a balanced approach to language and culture. It enables students to continue learning to speak, read and write elementary level Spanish as well as to understand the spoken language as they explore the culture and countries of the Spanish-speaking world. Students continue to review and improve upon concepts of grammar, vocabulary and verb tenses in a variety of auditory, visual and written contexts. The course will continue to examine the culture of the Spanish-speaking world. Prerequisite: SPAN 1A with a minimum grade of C. 90 hours lecture. AA/AS GE: IB. Transfer: CSU, UC; IGETC: 6A; C-ID# SPAN 110.

Degree Applicable, Credit Grading Option: OP

SPAN 2A INTERMEDIATE SPANISH I 4 UNITS

This course covers a review of grammar, reading of contemporary literature, practice in conversation and composition, and discussion of cultural topics. Prerequisite: SPAN 1B with a minimum grade of C. 72 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B, 6A; C-ID# SPAN 200.

Degree Applicable, Credit Grading Option: OP

SPAN 2B INTERMEDIATE SPANISH II 4 UNITS

A course covering the reading of contemporary works, advanced review of grammar emphasis on speaking and composition, and further discussion of cultural topics. Prerequisite: SPAN 2A with a minimum grade of C. 72 hours lecture. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B, 6A; C-ID# SPAN 210.

Degree Applicable, Credit Grading Option: OP

SPAN 21 SPANISH FOR SPANISH SPEAKERS I 5 UNITS

This course is designed for bilingual students whose heritage language is Spanish and for linguistically qualified students. Culture, language structures, basic fundamentals of grammar and composition, and oral and written communication are included in this course. The course provides students with instruction that builds upon their existing reading, writing, speaking and listening skills, and their cultural heritage and knowledge. The course increases awareness of linguistic registers and introduces a broad range of vocabulary. The course will allow students to discuss topics beyond their familiar routine and enhance their knowledge of Hispanic cultures as manifested in

Spanish speaking countries and in the United States. This course is conducted entirely in Spanish. Prerequisites: Spanish heritage speaker proficiency or the equivalent intermediate level as assessed. 90 hours lecture. AA/AS GE: IB, III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B, 6A; C-ID# SPAN 220.

Degree Applicable, Credit Grading Option: OP

SPAN 22 SPANISH FOR SPANISH SPEAKERS II 5 UNITS

This course is the second semester of Spanish for bilingual students. It's designed for students whose heritage language is Spanish and for linguistically qualified students who wish to improve their reading and writing Spanish skills. It continues to provide students with instruction that builds upon their existing reading, writing, speaking and listening skills, and their cultural heritage and knowledge. The course will continue helping students increase awareness of linguistic registers, discuss topics beyond the students' familiar routine and expand upon appreciation for Hispanic cultures as manifested in Spanish speaking countries and in the United States. This course is conducted entirely in Spanish: oral fluency in Spanish is strongly recommended. Prerequisite: SPAN 21 with a minimum grade of C. 90 hours lecture. AA/AS GE: IB, III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B, 6A; C-ID# SPAN 230.

Degree Applicable, Credit Grading Option: GR

SPAN 23 INTRODUCTION TO HISPANIC LITERATURE 3 UNITS

This course is designed for Spanish speakers and for linguistically qualified students who wish to improve their skills to a high-advanced level of reading, writing and literary analysis. The emphasis is on critical thinking and logical and effective support of ideas. Literary discussions will be an important component of the class, but writing composition will also be included, as well as exposure to international Hispanic culture. This course is conducted entirely in Spanish. Prerequisite: Spanish heritage speaker proficiency or the equivalent intermediate level as assessed. Strongly recommended: SPAN 22 with a minimum grade of C or successful completion of AP Spanish in high school. 54 hours lecture. AA/AS GE: IB, IC, III. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B, 6A.

Degree Applicable, Credit Grading Option: OP

SPAN 29 INDEPENDENT STUDY, SPANISH 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

THEATER ARTS

The Theater Arts major is designed to provide knowledge, training, and practical experience in a variety of areas which can be used in continuing participation and appreciation of theater and film throughout life. The Theater program at Las Positas is a unique blend of hands-on learning, personal creative exploration, and history and culture; theater is a wonderful way to continue to grow as a student and as an artist. Classes cover such topics as theater history, musical theater, acting, theater for young audiences, and directing, as well as stage and production management, lighting, scenery, and costume design. Our student-centered coursework and productions offer many different opportunities for students to become involved in the program and college in a meaningful, academic, and career-centered way. The Las Positas Theater program presents 4 productions annually, as well as many other performing and technical opportunities for our theater majors. We house our program in a beautiful state of the art performance facility with three theaters (a 450-seat proscenium, a black box, and an outdoor amphitheater), a costume shop, scene shop, and rehearsal studio.

Programs of Study

Degrees:

- AA-T – Theater Arts
- AA – Theater Arts

Certificates of Achievement:

- Acting
- Actors Conservatory
- Musical Theater
- Technical Theater

Career Opportunities

Career Opportunities for Theater majors (some with further study) may include: actor, director, playwright, dramaturg, literary manager, casting director, production manager, producer, artistic director, political advocate for the arts, teacher, lighting designer, lighting operator, scenic painter, stage/set designer, stage manager, sound operator, costume designer, or stage hand. While there are a multitude of career opportunities in the arts, Theater majors also develop highly valuable skills sets that are advantageous to any profession.

AA-T – Theater Arts

About the Degree

The Associate in Arts for Theater for Transfer major is designed to provide knowledge, training, and practical experience in all aspects of theater arts. The curriculum provides the essential lower-division courses necessary for transfer to similar programs at four-year institutions, as well as assisting students towards employment in

professional, academic and community theater. Upon completion, students can expect to be able to: apply the learned techniques of acting or technical theater in a public performance of various genres of theater, or other types of personal creative work; understand how to develop and maintain a positive contribution the field of theater in academics, performance, or technical theater; and possess the skills necessary for textual interpretation for academic discourse, design, and/or performance studies.

Completion Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or CA State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C " (or "P") or better in all courses required for the major or area of emphasis.

Career Opportunities

There are many careers available for an individual with a theater background: actor, director, playwright, dramaturg, designer, producer, theater manager, publicist, or agent. All of these career paths are available for students in both theater and film, making a theater degree an ideal education for creative students in California.

Program Outcomes

- Upon completion of the AA-T in Theater Arts, students are able to analyze the artistic elements in productions, looking at design, acting, and directorial choice.
- Upon completion of the AA-T in Theater Arts, students are able to apply the learned techniques of acting or technical theater in a public performance of various genres of theater, or other types of personal creative work.
- Upon completion of the AA-T in Theater Arts, students are able to possess the skills necessary for textual interpretation for academic discourse, design, and/or performance studies.
- Upon completion of the AA-T in Theater Arts, students are able to understand how to develop and maintain a positive contribution the field of theater in academics, performance, or technical theater.
- Upon completion of the AA-T in Theater Arts, students are able to understand the historical and cultural significance of theater through completion of projects in the technical theater courses and theater history class.

Required Core: (9 Units)

THEA 1A (Theory/Practice of Acting I)	3
THEA 10 (Introduction to Dramatic Arts).....	3
THEA 47A (Performance in Production: Introduction to Live	

Performance) or
THEA 48A (Technical Theater in Production-Beginning) 3

List A: Select Three (9 Units)

Any Required Core course not already used 3
THEA 1B (Theory/Practice of Acting II) 3
THEA 50 (Stagecraft) 3
THEA 50L (Introduction to Stage Lighting) 3
THEA 51 (Introduction to Costume Design) 3

Total Units for the Major 18

Additional General Education and Elective Units 42

Total Units 60

See the Las Positas College California State University General Education-Breadth or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units are CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AA – Theater Arts

About the Degree

The Associate of Arts in Theater Arts is designed to provide knowledge, training, and practical experience in all aspects of theater arts. The curriculum provides the essential lower-division courses necessary for transfer to some similar programs at four-year institutions, as well as assisting students towards employment in professional, academic and community theater.

Career Opportunities

Career Opportunities for Theater majors may include: actor, director, playwright, dramaturg, literary manager, casting director, production manager, producer, artistic director, political advocate for the arts, teacher, lighting designer, lighting operator, scenic painter, stage/set designer, stage manager, sound operator, costume designer, or stage hand. While there are a multitude of career opportunities in the arts, Theater majors also develop highly valuable skills sets that are advantageous to any profession.

Program Outcomes

- Upon completion of the AA in Theater Arts, students are able to apply the learned techniques of acting or technical theater in a public performance of various genres of theater, or other types of personal creative work.
- Upon completion of the AA in Theater Arts, students are able to critically analyze the artistic elements in productions, looking at design, acting, directorial choices, as well as personal performance processes.
- Upon completion of the AA in Theater Arts, students are able to possess the skills necessary for textual interpretation for academic discourse, design, and/or performance studies.

- Upon completion of the AA in Theater Arts, students are able to understand how to develop and maintain a positive contribution the field of theater in academics, performance, or technical theater.
- Upon completion of the AA in Theater Arts, students are able to understand the historical and cultural significance of theater through completion of projects in the technical theater courses and theater history class.

Required Core: (12 Units)

THEA 1A (Theory/Practice of Acting I) 3
THEA 10 (Introduction to Dramatic Arts) 3
THEA 47A (Performance in Production: Introduction to Live Performance) or
THEA 48A (Technical Theater in Production - Beginning) 3
THEA 50 (Stagecraft) 3

List A: Select Three from One Concentration (9 Units)

Performance Concentration

THEA 1B (Theory/Practice of Acting II) 3
THEA 3A (Beginning Improvisation) 3
THEA 5 (Theater for Young Audiences) 3
THEA 25 (Fundamentals of Stage Speech) 3
THEA 31A (Drama Workshop - Beginning) 3
THEA 39A (Musical Theater Workshop - Beginning) 3
THEA 47A (Performance in Production: Introduction to Live Performance) 3

Technical Theater Concentration

THEA 14 (Bay Area Theater) 3
THEA 48B (Technical Theater in Production - Intermediate) 3
THEA 50L (Introduction to Stage Lighting) 3
THEA 51 (Introduction to Costume Design) 3
THEA 52 (Introduction to Design) 3

List B: Select from Below (4 Units)

CMST 2 (Oral Interpretation of Literature) 3
CMST 5 (Readers Theater) 3
DANC 1 (Introduction to Dance) 1
DANC 2A (Jazz Dance Fundamentals/Beginning) 1
DANC 3A (Ballet Fundamentals/Beginning) 1
MUS 6 (Basic Music Skills) 2
MUS 23A (Elementary Voice I) 1
MUS 44 (Concert Choir) 1
MUS 45 (Chamber Choir) 2
MUS 46 (Vocal Jazz Ensemble) 2
THEA 4 (Modern American Theater) 3
THEA 11 (Stage to Screen) 3
THEA 12 (Film as Art & Communication) 3
THEA 53 (Script Analysis) 3

Total Units for the Major 25

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las

Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Acting

About the Certificate

The Acting certificate provides training in the theories and practice of acting for the stage. Students are required to audition for at least two Theater Productions (THEA 47A). The program is designed to provide knowledge and practical experience in performance. This program prepares students to perform in community, amateur, and professional productions of theater.

Career Opportunities

Performer (Actor / Dancer / Singer), Choreographer, Director, Teaching Artist, Corporate Facilitator

Program Outcomes

- Upon completion of the Acting Certificate, students are able to develop an understanding of the role of a character within the context of a play and create a unique character portrayal in emotional, physical, and vocal life.
- Upon completion of the Acting Certificate, students are able to make complex, creative, and bold acting choices during the rehearsal process as a means of creative exploration.
- Upon completion of the Acting Certificate, students are able to work collaboratively with fellow actors and production staff, demonstrating an understanding of the professional work ethic of an actor.
- Upon completion of the Acting Certificate, students are able to examine and perform within major genres of theater from world theatrical history.

Required Core: (12 Units)

THEA 1A (Theory/Practice of Acting I)	3
THEA 1B (Theory/Practice of Acting II)	3
THEA 3A (Beginning Improvisation)	3
THEA 25 (Fundamentals of Stage Speech)	3

List A: Select Two (6 Units)

THEA 5 (Theater for Young Audiences)	3
THEA 31A (Drama Workshop - Beginning)	3
THEA 39A (Musical Theater Workshop - Beginning)	3
THEA 47A (Performance in Production: Introduction to Live Performance)	3

Total Units 18

Certificate of Achievement Actors Conservatory

About the Certificate

The Actors Conservatory at Las Positas College seeks to inspire and prepare students for a life as performing artists. The Actors Conservatory foundational belief is that inspired, trained and professional actors will be leaders in the next generation of artists, passionately advocating for theater as a precious art form and viable trade skill. The Conservatory challenges students to find their personal truth, inner strength, and outer artists, enriching their own career path and the communities and stages around them.

Career Opportunities

Typical job opportunities include actor or performer in stage, television, or film, and digital media. This program also lines up with many of the foundation courses needed for an Associate for Degree for Transfer (AD-T) in Theater.

Program Outcomes

- Upon completion of the Actors Conservatory, students are able to apply the learned techniques of acting in a public performance of various genres of theater, or other types of personal creative work, synthesizing acting, movement, and vocal skills into a truthful theater performance.
- Upon completion of the Actors Conservatory, students are able to demonstrate a professional work ethic within a professional framework of collaboration in rehearsal and performance.
- Upon completion of the Actors Conservatory, students are able to exhibit a portfolio of academic and performance work through engagement and experiences aimed at a deeper and more profound understanding of the craft of theater and the cultural importance of the art form.
- Upon completion of the Certificate of Achievement in Actors Conservatory, students are able to integrate an understanding of the history of theater and theatrical text into performance using character construction, physicality and vocal nuance.

Required Core: (50 Units)

DANC 1 (Introduction to Dance)	1
DANC 2A (Jazz Dance Fundamentals/Beginning)	1
KIN FNE1 (Fencing - Epee 1)	1
MUS 21A (Beginning Piano)	1
MUS 23A (Elementary Voice I)	1
MUS 44 (Concert Choir)	1
THEA 1 (Conservatory Readiness)	1
THEA 1A (Theory/Practice of Acting I)	3
THEA 1B (Theory/Practice of Acting II)	3
THEA 3A (Beginning Improvisation)	3
THEA 3B (Intermediate Improvisation)	3
THEA 4 (Modern American Theater)	3
THEA 10 (Introduction to Dramatic Arts)	3
THEA 25 (Fundamentals of Stage Speech)	3
THEA 39A (Musical Theater Workshop - Beginning)	3

THEA 39B (Musical Theater Workshop - Intermediate)	3
THEA 53 (Script Analysis)	3
THEA 54 (Shakespeare Through Performance).....	3
THEA 55 (Movement for the Actor).....	1
THEA 56 (Acting for the Camera I).....	3
THEA 58 (Stage Combat)	2
THEA 59 (Acting for the Camera II/Voice Over)	3
THEA 60 (Business of Acting)	1

List A: Select One (3 Units)

THEA 5 (Theater for Young Audiences)	3
THEA 57A (Performance in Production- Intro to Musical Theater)	3
THEA 57B (Performance in Production- Beginning Musical Theater)	3
THEA 57C (Performance in Production- Intermediate Musical Theater).....	3

List B: Select One (3 Units)

THEA 48A (Technical Theater in Production - Beginning)	3
THEA 57A* (Performance in Production- Intro to Musical Theater).....	3
THEA 57B* (Performance in Production- Beginning Musical Theater).....	3
THEA 57C* (Performance in Production- Intermediate Musical Theater).....	3

List C: Select One (3 Units)

THEA 47A (Performance in Production: Introduction to Live Performance)	3
THEA 57A** (Performance in Production- Intro to Musical Theater).....	3
THEA 57B** (Performance in Production- Beginning Musical Theater).....	3
THEA 57C** (Performance in Production- Intermediate Musical Theater).....	3

Total Units 59

*If not taken in List A

**If not taken in List A or List B

**Certificate of Achievement
Musical Theater**

About the Certificate

The Musical Theater certificate provides training in the theories and practices of performing in musicals. The program is designed to provide knowledge and practical experience in acting, singing, movement and dance, preparing students to perform in community, amateur and professional productions of musical theater. Students are required to audition for at least one Musical Theater production (THEA 57).

Career Opportunities

Performer (Actor / Dancer / Singer), Choreographer, Director, Teaching Artist, Corporate Facilitator.

Program Outcomes

- Upon completion of the Certificate of Achievement in Musical Theater, students are able to synthesize acting, movement, dance, and singing skills into a truthful musical theater performance.
- Upon completion of the Certificate of Achievement in Musical Theater, students are able to examine and perform within major genres of American Musical Theater.
- Upon completion of the Certificate of Achievement in Musical Theater, students are able to practice, perform, and memorize scales, chords, and simple harmonic progressions.
- Upon completion of the Certificate of Achievement in Musical Theater, students are able to demonstrate knowledge of the basic anatomy and physiology involved in tone production and of the respiratory system and its contribution to singing.
- Upon completion of the Certificate of Achievement in Musical Theater, students are able to demonstrate a professional work ethic within a professional framework of collaboration in rehearsal and performance.

Required Core: (12 Units)

THEA 1A (Theory/Practice of Acting I)	3
THEA 1B (Theory/Practice of Acting II).....	3
THEA 39A (Musical Theater Workshop - Beginning).....	3
DANC 1 (Introduction to Dance).....	1
MUS 21A (Beginning Piano)	1
MUS 23A (Elementary Voice I).....	1

List A: Select One (3 Units)

THEA 39B (Musical Theater Workshop - Intermediate).....	3
THEA 57A (Performance in Production - Intro to Musical Theater).....	3

List B: Select One (1-2 Unit)

MUS 23B (Elementary Voice II)	1
MUS 44 (Concert Choir)	1
MUS 45 (Chamber Choir).....	2
MUS 46 (Vocal Jazz Ensemble).....	2

List C: Select One (1 Unit)

DANC 2A (Jazz Dance Fundamentals/Beginning).....	1
DANC 2B (Jazz Dance Beginning/Intermediate)	1
DANC 3A (Ballet Fundamentals/Beginning)	1

Total Units17-18

**Certificate of Achievement
Technical Theater**

About the Certificate

The Las Positas College Technical Theater Certificate is designed to prepare students for entry level occupations as a theater technician in educational, community, and resident theater venues. Technical theater technicians may work on set construction, carpentry, sound

systems, lighting design, light board operation, stage lighting, scenery costumes, props, and various degrees of entry level management positions, such as hours management and stage management. This program is designed to prepare individuals who work in technical production areas with a range of skills, enabling them to select, adapt and transfer skills to different work situations throughout their career in technical theater. This program prepares students, through coursework and hands on experience, for work in technical theater. The certificate includes a wide range of topics designed to give students basic skills and knowledge to work behind the scenes in theater and other venues. This certificate can also serve as the first step in completing the Theater Associates Degree for transfer (AD-T) to a four year college or university, where students can complete a degree in a specialized or generalized field of theatrical study. Typical job opportunities include: lighting designer, lighting operator, scenic painter, stage/set designer, stage manager, sound operator, costume designer, or stage hand.

Career Opportunities

Typical job opportunities include: lighting designer, lighting operator, scenic painter, stage/set designer, stage manager, sound operator, costume designer, or stage hand. This program also lines up with many of the foundation courses needed for an Associate for Degree for Transfer (AD-T) in Theater.

Program Outcomes

- Upon completion of the Certificate of Achievement in Technical Theater, students are able to read construction plans and construct common stage scenery such as flats, platform, and stairs.
- Upon completion of the Certificate of Achievement in Technical Theater, students are able to hang, cable and focus stage lighting and be able to read lighting plots and related documents.
- Upon completion of the Certificate of Achievement in Technical Theater, students are able to perform as a member of a show running crew in various capacities, such as stagehand, light or sound board operator, or wardrobe assistant.
- Upon completion of the Certificate of Achievement in Technical Theater, students are able to analyze elements of a theatrical design.
- Upon completion of the Certificate of Achievement in Technical Theater, students are able to research, plot, and design costumes for use in production.

Required Core: (15 Units)

THEA 10 (Introduction to Dramatic Arts).....	3
THEA 48A (Technical Theater in Production - Beginning)	3
THEA 48B (Technical Theater in Production - Intermediate).....	3
THEA 48C (Technical Theater in Production - Advanced).....	3
THEA 50 (Stagecraft)	3

List A: Select Four (12 Units)

MUS 35 (Intro to Music Technology).....	3
THEA 48D (Technical Theater in Production - Capstone).....	3
THEA 50L (Introduction to Stage Lighting).....	3
THEA 51 (Introduction to Costume Design)	3

THEA 52 (Introduction to Design)3

Total Units 27

Theater Arts Courses (THEA)

THEA 1 CONSERVATORY READINESS 1 UNIT

This course is required for students interested in participating in the Actors Conservatory at Las Positas College. This course prepares students for a rigorous two-year training program in acting, musical theater, and dance. Students are expected to perform monologues, solos, and short dance sequences in this course, as well as participate in mentorship and cohort activities throughout the semester. 18 hours lecture.

Degree Applicable, Credit Grading Option: P/NP

THEA 1A THEORY/PRACTICE OF ACTING I 3 UNITS

This course prepares a student to apply basic acting theory to performance and develops the skills of interpretation of drama through acting. Special attention is paid to skills for performance: memorization, stage movement, vocal production, and interpretation of text. An introduction to the techniques and theories of acting, explored through improvisation, exercises and scene study. Students should be able to demonstrate the following skills: development of the physical and psychological resources for acting including relaxation, concentration, creativity, believability, and commitment. Strongly Recommended: ENG 1A with a minimum grade of C or ENG 1AEX with a minimum grade of C. 54 hours lecture. Family: Theater Studio. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; C-ID# THTR 151.

Degree Applicable, Credit Grading Option: GR

THEA 1B THEORY/PRACTICE OF ACTING II 3 UNITS

Continued exploration of the theory and practice of acting, focusing on more complex characterization and character analysis. Introduction to theatrical styles and period acting with emphasis on monologues and scenes. Prerequisite: THEA 1A with a minimum grade of C or equivalent acting class or acting performance experience. 54 hours lecture. Family: Theater Studio. AA/AS GE: III. Transfer: CSU, UC; C-ID# THTR 152.

Degree Applicable, Credit Grading Option: GR

THEA 3A BEGINNING IMPROVISATION 3 UNITS

An entry level course designed to introduce to students to concepts of improvisation and creative dramatics. It will encourage students to "think out of the box", promoting creative problem solving within a supportive ensemble. Recommended for non-majors (Early Childhood education, Business, Speech/Communication majors especially encouraged) as well as Theatre: AA students. 54 hours lecture. Family: Theater Improv. AA/AS GE: IB. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

THEA 3B INTERMEDIATE IMPROVISATION 3 UNITS

This course will teach students Long-Form Improvisation. The class will concentrate on finding style and improving skills through various in class, supportive, exercises. We will focus on accepting/supporting, creating honest and strong relationship, and developing complex and engaging circumstances. Prerequisite: THEA 3A with a minimum grade of C. 54 hours lecture. Family: Theater Improv. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

THEA 3C IMPROVISATION IN PERFORMANCE 3 UNITS

From Saturday Night Live to Flash Mobs - Improvisation is part of our culture. Students will get the opportunity to perform as well as teach improvisation techniques and creative dramatics in a supportive and fun atmosphere. The students will also have opportunities to attend and critique the work various local improvisation troupes. Prerequisite: THEA 3B with a minimum grade of C. 54 hours lecture. Family: Theater Improv. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

THEA 4 MODERN AMERICAN THEATER 3 UNITS

The history, representation and contributions of various works of Modern American Theater and the study of Modern American theater as an instrument for expressing and understanding cultural identity. The focus will be on at least three of the following cultural groups: African Americans, Asian Americans, European Americans, Latin Americans and Native Americans. Strongly Recommended: ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: III, AC. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit Grading Option: GR

THEA 5 THEATER FOR YOUNG AUDIENCES 3 UNITS

Introduction to the history, theory, and techniques of theater for young audiences. Creation, including possible props, puppets, masks, and costumes, and performance of a theatrical production to be performed for local K-12 students. All enrolled will be a part of the production and will learn aspects of touring a show including public relations, audio, and transportation. Casting is subject to audition. Strongly Recommended: THEA 1A with a minimum grade of C. 54 hours lecture. AA/AS GE: III. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

THEA 10 INTRODUCTION TO DRAMATIC ARTS 3 UNITS

A survey of the elements of Theater and its contribution to cultures and societies throughout history. Strongly Recommended: Eligibility for ENG 1A/1AEX. 54 hours lecture. Family: Theater Humanities. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A; C-ID# THTR 111.

Degree Applicable, Credit Grading Option: GR

THEA 11 STAGE TO SCREEN 3 UNITS

Major plays which subsequently have been made into films. Analysis of each playscript augmented by a viewing and analysis of the film adaptation. Major areas of concentration may vary from semester to

semester. 54 hours lecture. Family: Theater Humanities. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit Grading Option: GR

THEA 12 FILM AS ART & COMMUNICATION 3 UNITS

Introduction to film as an art form and means of communication. Film history, elements of the filmmaking process, major film traditions and genres. 45 hours lecture, 27 hours laboratory. Family: Theater Humanities. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit Grading Option: GR

THEA 14 BAY AREA THEATER 3 UNITS

Appreciation of theatrical performances through reading, evaluating and attending live productions. Specific content is determined by currently available theatrical productions. 54 hours lecture. Family: Theater Humanities. AA/AS GE: III. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit Grading Option: OP

THEA 25 FUNDAMENTALS OF STAGE SPEECH 3 UNITS

Theory and practice of speech improvement for acting with emphasis on development of the voice, articulation, and pronunciation for theater production. 54 hours lecture. Family: Theater Support. AA/AS GE: IB. Transfer: CSU, UC; CSU GE: C1.

Degree Applicable, Credit Grading Option: GR

THEA 29A INDEPENDENT STUDY, THEATER 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

THEA 29S INDEPENDENT STUDY, STAGECRAFT 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

THEA 31A DRAMA WORKSHOP - BEGINNING 3 UNITS

Participation as an actor in experimental workshop plays, original student scripts, and other projects, possibly leading to scheduled performances. Casting subject to in class audition. 36 hours lecture, 54 hours laboratory. Family: Theater Workshop. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

THEA 31B DRAMA WORKSHOP - INTERMEDIATE 3 UNITS

Participation as an experienced actor in one act plays, original student scripts, or other projects, leading to scheduled performances. Casting subject to audition. Prerequisite: THEA 31A with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Family: Theater Workshop. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

THEA 31C DRAMA WORKSHOP - 3 UNITS

TECHNICAL THEATER

Participation as designer or stage crew in one act plays, original student scripts, or other projects developed in collaboration with students in Theater 31 A and 31B. Prerequisite: THEA 50 with a minimum grade of C (May be taken concurrently). Strongly Recommended: THEA 48A with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Family: Theater Workshop. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

THEA 31D DRAMA WORKSHOP - DIRECTING 3 UNITS

Participation as a director or assistant director of one act plays, original student scripts, or other projects, leading to scheduled performances. 36 hours lecture, 54 hours laboratory. Family: Theater Workshop. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

THEA 39A MUSICAL THEATER WORKSHOP - BEGINNING 3 UNITS

Training in performance skills for the musical theater, with emphasis on acting, stage movement and vocal production. Solo, duet and ensemble work, possibly leading to a culminating public performance. 36 hours lecture, 54 hours laboratory. Family: Theater Musical Theater Studio. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

THEA 39B MUSICAL THEATER WORKSHOP - INTERMEDIATE 3 UNITS

Intermediate training in performance skills for the musical theater, with emphasis on acting, stage movement and vocal production. Study includes written analyses, musical theater staging and basic acting and vocal techniques. Solo, duet, and ensemble work possibly leading to culminating public performance. Prerequisite: THEA 39A with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Family: Theater Musical Theater Studio. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

THEA 39C MUSICAL THEATER WORKSHOP - ADVANCED 3 UNITS

Advanced training in performance skills for the musical theater, with emphasis on acting, stage movement and vocal production. Study includes auditioning techniques and critical analyses of musical theater performances. Culminating public performance required. Prerequisite: THEA 39B with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Family: Theater Musical Theater Studio. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

THEA 47A PERFORMANCE IN PRODUCTION: INTRODUCTION TO LIVE PERFORMANCE 3 UNITS

This course provides instruction and supervised participation in theatre rehearsal and performance. On stage participation in cast of scheduled main stage production. Enrollment by Audition only. 36 hours lecture, 54 hours laboratory. Family: Theater Non-musical

Theater. Transfer: CSU, UC; C-ID# THTR 191.

Degree Applicable, Credit Grading Option: GR

THEA 47B PERFORMANCE IN PRODUCTION: BEGINNING 3 UNITS

As a continuation of THEA 47A, students will participate in the cast of a scheduled main stage production. Emphasis will be on character development, objectives, and actions. Enrollment by Audition only. Prerequisite: THEA 47A with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Family: Theater Non-musical Theater. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

THEA 47C PERFORMANCE IN PRODUCTION: INTERMEDIATE 3 UNITS

This course is a continuation of THEA 47B. Student will participate in the cast of a scheduled main stage production. This course will focus on rehearsal technique, personal creative exploration, and ensemble building and motivated performance response. Enrollment by Audition only. Prerequisite: THEA 47B with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Family: Theater Non-musical Theater. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

THEA 47D PERFORMANCE IN PRODUCTION: ADVANCED 3 UNITS

As a continuation of THEA 47C, students will continue to develop onstage with participation in the cast of the scheduled main stage production. This course will emphasize complexity and polish in performance, personal and creative development as a theater professional, and outreach and publicity obligations. Enrollment by Audition only. Prerequisite: THEA 47C with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Family: Theater Non-musical Theater. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

THEA 48A TECHNICAL THEATER IN PRODUCTION - BEGINNING 3 UNITS

Students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Enrollment is for the duration of the semester. Strongly Recommended: MATH 107 with a minimum grade of C, THEA 50 with a minimum grade of C. 18 hours lecture, 108 hours laboratory. Family: Theater Tech. Transfer: CSU, UC; C-ID# THTR 192.

Degree Applicable, Credit Grading Option: OP

THEA 48B TECHNICAL THEATER IN PRODUCTION - INTERMEDIATE 3 UNITS

Participation in scheduled productions and events as crew members and/or construction of said productions technical elements, including lighting and sound implementation. Enrollment is for the duration of the semester. Students may participate in the design and board operation of multiple productions or events per semester. Prerequisite: THEA 48A with a minimum grade of C. Strongly Recommended: MATH 107 with a minimum grade of C. 18 hours lecture, 108 hours

laboratory. Family: Theater Tech. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

THEA 48C TECHNICAL THEATER IN PRODUCTION - ADVANCED 3 UNITS

Participation in scheduled productions as assistant stage managers or assistant designers of said productions technical elements, including scenic, costume, lighting and sound design. Enrollment is for the duration of the semester. Students may participate in more than one production per semester, as needed. Prerequisite: THEA 48B with a minimum grade of C, THEA 50L with a minimum grade of C or THEA 51 with a minimum grade of C or MUS 35 with a minimum grade of C or THEA 52 with a minimum grade of C. Strongly Recommended: MATH 107 with a minimum grade of C or MATH 107B with a minimum grade of C. 18 hours lecture, 108 hours laboratory. Family: Theater Tech. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

THEA 48D TECHNICAL THEATER IN PRODUCTION-CAPSTONE 3 UNITS

Participation in scheduled productions as manager of productions technical elements, which may include stage management, publicity management, or designer's apprentice in lighting, sound, costume, or scenic design. Enrollment is for the duration of the semester. Students may participate in more than one production or event per semester. Prerequisite: THEA 48C with a minimum grade of C, THEA 50L with a minimum grade of C or THEA 51 with a minimum grade of C or MUS 35 with a minimum grade of C or THEA 52 with a minimum grade of C. 18 hours lecture, 108 hours laboratory. Family: Theater Management. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

THEA 50 STAGECRAFT 3 UNITS

An introduction to technical theatre and the creation of scenic elements. Includes basic concepts of design, painting techniques, set construction, set movement, prop construction, backstage organization, and career possibilities. May include stage management, lighting, and/or sound techniques. Lecture, reading, projects, and practical experience. 36 hours lecture, 54 hours laboratory. Family: Theater Design. Transfer: CSU, UC; C-ID# THTR 171.

Degree Applicable, Credit Grading Option: GR

THEA 50L INTRODUCTION TO STAGE LIGHTING 3 UNITS

This course involves the study and execution of stage lighting with emphasis on equipment, control, color and their relationship to design. Introduction to stage lighting design. Physics of light, color, electricity; components of basic lighting technology; comprehensive overview of the art of theater lighting design. Strongly Recommended: THEA 50 with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Family: Theater Design. Transfer: CSU, UC; C-ID# THTR 173.

Degree Applicable, Credit Grading Option: OP

THEA 51 INTRODUCTION TO COSTUME DESIGN 3 UNITS

Students will study costume history, design, and basic construction

techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated. Design and fabrication of costumes for production; components of basic sewing and costume construction; comprehensive overview of the history of fashion and costume, color, manufacturing techniques; Introduction to basic makeup design; makeup application techniques and design; special effects makeup techniques. Strongly Recommended: THEA 50 with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU, UC; CSU GE: C1; C-ID# THTR 174.

Degree Applicable, Credit Grading Option: GR

THEA 52 INTRODUCTION TO DESIGN 3 UNITS

Students will be offered a survey of the design and history of scenery, lighting, sound, costumes, makeup, properties, theatrical equipment and construction techniques through demonstration, and laboratory experience. Information is applicable to all formal theatrical applications. 45 hours lecture, 27 hours laboratory. AA/AS GE: III. Transfer: CSU, UC; C-ID# THTR 172.

Degree Applicable, Credit Grading Option: OP

THEA 53 SCRIPT ANALYSIS 3 UNITS

Develops critical thinking, analysis, and writing skills as they apply to the exploration of the principles, theories and techniques of play script analysis for theatrical production. Class content includes the historical and cultural importance of various kinds of script; genre and form; narrative and plot analysis; linguistic analysis; interpreting stage directions; and identification of main themes. Emphasis on effective written communication in literature. Research required. Prerequisite: ENG 1A with a minimum grade of C or ENG 1AEX with a minimum grade of C. 54 hours lecture. AA GE: IC. Transfer: CSU, UC; CSU GE: A3, C1; IGETC: 1B, 3A; C-ID# THTR 114.

Degree Applicable, Credit Grading Option: OP

THEA 54 SHAKESPEARE THROUGH PERFORMANCE 3 UNITS

Study and performance of classical Shakespearean texts (monologues and dialogues), with a focus on the Elizabethan world as it applies to performance. Students will come to understand the works of William Shakespeare through active performance techniques as well as traditional literary analysis. Prerequisite: THEA 1A with a minimum grade of C. Strongly Recommended: THEA 1B with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

THEA 55 MOVEMENT FOR THE ACTOR 1 UNIT

Movement for the Actor is designed to use movement and gesture for furthering skills in character development, enhancing the actor's understanding of their body as a tool for communication. This course focuses on the actor's body and mind connection, and how they might use that connection to further enhance their performance skills. Course included exercises based on various techniques including an introduction to mime, Laban, Viewpoints, character masks, and ensemble development exercises. 18 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

THEA 56 ACTING FOR THE CAMERA I 3 UNITS

Introduction to the principles and techniques of acting on camera. Different techniques for work with three cameras, commercials, acting for film and acting for television. Work with technique for various on camera types of auditions, i.e., commercials, film and television. Prerequisite: THEA 1A with a minimum grade of C (May be taken concurrently). 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

THEA 57A PERFORMANCE IN PRODUCTION - INTRO TO MUSICAL THEATER 3 UNITS

This course provides instruction and supervised participation in theatre rehearsal and performance. On stage participation in cast of scheduled main stage production. Enrollment is for the duration of the production. 36 hours lecture, 54 hours laboratory. Family: Theater Musical Theater. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

THEA 57B PERFORMANCE IN PRODUCTION - BEGINNING MUSICAL THEATER 3 UNITS

As a continuation of THEA 57A, students will participate in the cast of a scheduled main stage musical production. Emphasis will be on character development, objectives, and actions. Prerequisite: THEA 57A with a minimum grade of C (May be taken concurrently). 36 hours lecture, 54 hours laboratory. Family: Theater Musical Theater. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

THEA 57C PERFORMANCE IN PRODUCTION - INTERMEDIATE MUSICAL THEATER 3 UNITS

This course is a continuation of THEA 57B. Student will participate in the cast of a scheduled main stage musical production. This course will focus on rehearsal technique, personal creative exploration, and ensemble building and motivated performance response. Prerequisite: THEA 57B with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Family: Theater Musical Theater. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

THEA 57D PERFORMANCE IN PRODUCTION - ADVANCED MUSICAL THEATER 3 UNITS

As a continuation of THEA 57C, students will continue to develop onstage with participation in the cast of the scheduled main stage production. This course will emphasize complexity and polish in performance, personal and creative development as a theater professional, and development as a vocal musician. Prerequisite: THEA 57C with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Family: Theater Musical Theater. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

THEA 58 STAGE COMBAT 2 UNITS

This course introduces students to armed and unarmed stage combat for the theater and entertainment industry with a concentrated focus on partnership, safety, and storytelling through movement. Focus

on hand to hand combat and single sword, among others. Students will have the option to complete certification with The Society of American Fight Directors. Prerequisite: THEA 1A with a minimum grade of C, THEA 55 with a minimum grade of C. 18 hours lecture, 54 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: GR

THEA 59 ACTING FOR THE CAMERA II/ VOICE OVER 3 UNITS

This course is a continuation of Acting for the Camera; this course further explores the challenges an actor faces in delivery for TV/Film/Media. Additionally, this course covers an introduction to Voice Over Acting. This course will prepare students for on-camera or voice-over auditions and work. Prerequisite: THEA 56 with a minimum grade of C. 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

THEA 60 BUSINESS OF ACTING 1 UNIT

Students with an interest in pursuing acting beyond the community college setting will work on preparations to audition for theater, film and four-year schools and develop an understanding of the expectations of professional actors. Work on monologues and showcase scenes, cold reading technique included. Prerequisite: THEA 1A with a minimum grade of C (May be taken concurrently). 18 hours lecture. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

TUTORING

The Las Positas College Tutorial program offers all students free tutoring. Tutoring is provided by trained LPC tutors who are dedicated to students' educational success. All tutors must take the Tutoring Theory and Practice series of classes.

- TUTOR 17A is taken at the start of the tutorial experience and teaches management of tutorial sessions including the ethics and communication skills.
- TUTOR 17B must be taken by second semester tutors and focuses on metacognition and questioning skills.
- TUTOR 17C is designed to encourage leadership among the advanced tutors.

Motivated students who have passed classes with an "A" or "B", enjoy working with others, and have received instructor recommendations are encouraged to interview to be tutors and take this series of classes. Only those hired to be tutors at LPC may register for these classes.

Tutoring Courses (TUTOR)

TUTOR 17A TUTORING THEORY AND PRACTICE I 0.5 UNITS

Training for college tutors to acquire specific skills and techniques for tutoring in academic and vocational subject areas, and basic skills. The course will provide a conceptual framework of tutoring to guide students in leading effective tutoring sessions. 9 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

TUTR 17B TUTORING THEORY AND PRACTICE II 0.5 UNITS

Intermediate training for college tutors. Tutors will acquire specific skills and techniques for tutoring in academic subjects, vocational subjects and basic skills. Required course for second semester tutors participating in the Las Positas College Tutorial Program. Prerequisite: TUTR 17A with a minimum grade of C. 9 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

TUTR 17C TUTORING THEORY AND PRACTICE III 0.5 UNITS

Advanced training for college tutors to obtain skills and techniques in academic and vocational subject areas and basic skills remediation. Emphasis upon leading group tutoring sessions and mentoring new tutors. Required course for third semester tutors participating in the Las Positas College Tutorial Program. Prerequisite: TUTR 17B with a minimum grade of C. 9 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

UNIVERSITY TRANSFER

Programs of Study

Certificates of Achievement:

- CSU General Education Breadth
- IGETC (Intersegmental General Education Curriculum)

For more information, see a counselor.

Certificate of Achievement CSU General Education Breadth

About the Certificate

Students transferring to the California State University have the opportunity to complete their lower division general education requirements at Las Positas College. This pattern of general education requires a minimum of 39 semester units to be completed. The Certificate of Achievement in University Transfer - CSU General Education Breadth will officially acknowledge a significant educational achievement the student has completed at Las Positas College. Counselor assistance is advised.

Program Outcomes

- Upon completion of the Certificate of Achievement CSU General Education Breadth, students are able to critically apply ethical standards to identify problems and create solutions.
- Upon completion of the Certificate of Achievement in CSU General Education Breadth, students are able to recognize ethical principles and behave responsibly.
- Upon completion of the Certificate of Achievement in CSU General Education Breadth, students are able to understand and appreciate the diversity of the human experience.
- Upon completion of the Certificate of Achievement in CSU General Education Breadth, students are able to read, write, speak, and listen to communicate effectively.
- Upon completion of the Certificate of Achievement in CSU General Education Breadth, students are able to use and criticize quantitative arguments and understand experimental methodology, the testing of hypotheses, and the power of systematic questioning.
- Upon completion of the Certificate of Achievement in CSU General Education Breadth, students are able to analyze and appreciate works of philosophical, historical, literary, and cultural importance.
- Upon completion of the Certificate of Achievement in CSU General Education Breadth, students are able to identify strategies for continual sociological, psychological, and biological well-being.

Area A: English Language Communication and Critical Thinking (9-11 Units)

Select at least 1 course from A1, A2 and A3, minimum 9 units required

All courses must be completed with a grade of 'C' or better.

A1: Oral Communication

CMST 1 (Fundamentals of Public Speaking)	3
CMST 10 (Interpersonal Communication).....	3
CMST 46 (Argumentation and Debate)	3

A2: Written Communication

ENG 1A (Critical Reading and Composition)	3
ENG 1AEX (Critical Reading and Composition Expanded)	4

A3: Critical Thinking

CMST 46 (Argumentation and Debate)	3
ENG 4 (Critical Thinking and Writing about Literature)	3
ENG 7 (Critical Thinking and Writing Across Disciplines)	3
PHIL 6 (Introduction to Logic).....	3
PHIL 8 (Logic and Argumentation).....	4
THEA 53 (Script Analysis).....	3

Area B: Scientific Inquiry and Quantitative Reasoning (9-15 Units)

Select at least 1 course from each Group listed below, minimum 9 units required

B1: Physical Science

Select 1 course

ASTR 10 (Introduction to Astronomy: The Solar System)3
 ASTR 20 (Introduction to Astronomy: Stars and the Universe).....3
 CHEM 1A* (General College Chemistry I)5
 CHEM 1B* (General College Chemistry II)5
 CHEM 12A* (Organic Chemistry I).....5
 CHEM 12B* (Organic Chemistry II)5
 CHEM 30A* (Introductory and Applied Chemistry I)4
 CHEM 30B* (Introductory and Applied Chemistry II).....4
 CHEM 31* (Introduction to College Chemistry)4
 EVST 5 (Energy and Sustainability)3
 GEOG 1 (Introduction to Physical Geography).....3
 GEOG 8 (Introduction to Atmospheric Science)3
 GEOG 12 (Geography of California).....3
 GEOL 1 (Physical Geology)3
 GEOL 2* (Historical Geology with Lab).....4
 GEOL 5 (Environmental Geology: Hazards & Disasters).....3
 GEOL 7 (Environmental Geology:
 Resources, Use Impact & Pollution).....3
 GEOL 12 (Introduction to Oceanography).....3
 GEOL 20* (Earth Science for Educators).....4
 PHYS 1A* (General Physics I)5
 PHYS 1B* (General Physics II).....5
 PHYS 1C* (General Physics III).....5
 PHYS 1D* (General Physics IV)3
 PHYS 2A* (Introduction to Physics I).....4
 PHYS 2B* (Introduction to Physics II)4
 PHYS 10 (Descriptive Physics)3

B2: Life Science

Select 1 course

ANTR 1 (Biological Anthropology).....3
 ANTR 13 (Introduction to Forensic Anthropology)3
 BIO 1A* (General Botany).....5
 BIO 1B* (General Zoology).....5
 BIO 1C* (Cell and Molecular Biology)5
 BIO 7A* (Human Anatomy).....5
 BIO 7B* (Human Physiology).....5
 BIO 7C* (Microbiology).....5
 BIO 10* (Introduction to the Science of Biology)4
 BIO 20 (Contemporary Human Biology).....3
 BIO 30* (Introduction to College Biology)4
 BIO 40 (Humans and the Environment).....3
 BIO 50* (Anatomy and Physiology).....4
 BIO 60* (Marine Biology).....4
 BIO 70* (Field Biology).....3
 PSYC 4 (Brain, Mind, and Behavior)3

B3: Laboratory Activity

Complete at least 1 course from below or from B1 or B2 marked with an *

ANTR 1L (Biological Anthropology Lab)1
 ANTR 2L (Archaeology Field Lab)1
 ASTR 30L (Introduction to Astronomy Lab).....1
 GEOG 1L (Introduction to Physical Geography Laboratory)1
 GEOL 1L (Physical Geology Laboratory).....1
 GEOL 12L (Intro to Oceanography Lab).....1
 PHYS 10L (Descriptive Physics Lab).....1

B4: Mathematics/Quantitative Reasoning

Select 1 course

Must be completed with a grade of 'C' or better.

BUSN 33 (Personal Financial Management and Planning)3
 CS 17 (Discrete Mathematical Structures)4
 MATH 1 (Calculus I).....5
 MATH 2 (Calculus II)5
 MATH 3 (Multivariable Calculus).....5
 MATH 5 (Ordinary Differential Equations)3.5
 MATH 7 (Elementary Linear Algebra)3.5
 MATH 10 (Discrete Mathematical Structures).....4
 MATH 27 (Number Systems for Educators).....3
 MATH 30 (College Algebra for STEM)4
 MATH 33 (Finite Mathematics)4
 MATH 34 (Calculus for Business and Social Sciences).....5
 MATH 39 (Trigonometry).....4
 MATH 40 (Statistics and Probability)4
 MATH 47 (Mathematics for Liberal Arts)3

Area C: Arts and Humanities (9-14 Units)

Select 3 courses from below, at least 1 course from Arts and at least 1 course from Humanities

C1: Arts

Select at least 1 course

ARHS 1 (Introduction to Art History)3
 ARHS 2 (Art of the Ancient Americas)3
 ARHS 3 (Arts of Africa, Oceania, and Indigenous North Americas).....3
 ARHS 4 (Western Art History - Ancient to Medieval)3
 ARHS 5 (Western Art History - Renaissance to Contemporary)3
 ARHS 7 (Modern Art History)3
 ARHS 8 (Asian Art History)3
 ARTS 2A (Introduction to Drawing).....3
 ARTS 3A (Figure and Composition I)3
 ARTS 4A (Introduction to Ceramics)3
 ARTS 7A (Introduction to Watercolor Painting).....3
 ARTS 12A (Oil/Acrylic Painting:Beginning I).....3
 GDDM 3 (The History of Modern Design)3
 HUMN 2 (Introduction to Film Studies)3
 HUMN 4 (Global Cinemas)4
 HUMN 11 (Culture and the Arts I: Ancient World to the
 Renaissance).....3
 HUMN 12 (Culture and the Arts I: The Modern World)3
 MUS 1 (Introduction to Music)3
 MUS 3 (World Music).....3
 MUS 4 (Jazz in American Culture)3
 MUS 5 (American Cultures in Music)3
 MUS 6 (Basic Music Skills).....2
 MUS 8A (Music Theory and Musicianship 1)4
 MUS 8B (Music Theory and Musicianship 2)4
 MUS 13 (History of Rock & Roll)3
 MUS 34 (Music in Film)3
 PHTO 67 (History of Photography).....3
 THEA 1A (Theory/Practice of Acting I)3
 THEA 4 (American Cultures in Theater)3
 THEA 10 (Introduction to Dramatic Arts).....3
 THEA 11 (Stage to Screen)3
 THEA 12 (Film As Art & Communication).....4

THEA 14 (Bay Area Theater) 3
 THEA 25 (Fundamentals of Stage Speech) 3
 THEA 51 (Introduction to Costume Design) 3
 THEA 53 (Script Analysis) 3
 WLDT 71 (Welding for the Arts) 3

C2: Humanities

Select at least 1 course

ASL 2A (American Sign Language III) 3
 ASL 2B (American Sign Language IV) 3
 CMST 2 (Oral Interpretation of Literature) 3
 CMST 5 (Readers Theater) 3
 ECE 61 (Literature for the Young Child) 3
 ENG 4 (Critical Thinking and Writing about Literature) 3
 ENG 7 (Critical Thinking and Writing Across Disciplines) 3
 ENG 11 (Introduction to Creative Writing) 3
 ENG 12A (Craft of Writing Fiction) 3
 ENG 12B (Craft of Writing Fiction: Intermediate) 3
 ENG 13A (The Craft of Writing Poetry: Beginning) 3
 ENG 13B (The Craft of Writing Poetry: Intermediate) 3
 ENG 20 (Studies in Shakespeare) 3
 ENG 32 (U.S. Women's Literature) 3
 ENG 35 (Modern American Literature) 3
 ENG 41 (World Literature: 17th Century to the Present) 3
 ENG 42 (Literature of the African Diaspora in America) 3
 ENG 44 (Literature of the American West) 3
 ENG 45 (Studies in Fiction) 3
 FREN 2A (Intermediate French I) 4
 FREN 2B (Intermediate French II) 4
 HIST 1 (Western Civilization to 1600) 3
 HIST 2 (Western Civilization Since 1600) 3
 HIST 3 (World History to 1500) 3
 HIST 4 (World History since 1500) 3
 HIST 7 (US History Through Reconstruction) 3
 HIST 8 (US History Post-Reconstruction) 3
 HIST 14 (History and American Cultures of California) 3
 HIST 25 (American Indian History) 3
 HIST 32 (U.S. Women's History) 3
 HUMN 2 (Introduction to Film Studies) 3
 HUMN 3 (Introduction to Humanities) 3
 HUMN 4 (Global Cinemas) 4
 HUMN 6 (Nature and Culture) 3
 HUMN 10 (American Arts and Ideas) 3
 HUMN 11 (Culture and the Arts I: Ancient World to the Renaissance) 3
 HUMN 12 (Culture and the Arts I: The Modern World) 3
 HUMN 28 (World Mythology) 3
 MUS 34 (Music in Film) 3
 PHIL 1 (God, Nature, Human Nature) 3
 PHIL 1H (Honors Philosophy 1: God, Nature, Human Nature) 3
 PHIL 2 (Ethics) 3
 PHIL 2H (Honors Philosophy 2: Ethics) 3
 PHIL 3 (Aesthetics) 3
 PHIL 4 (Intro to Philosophy: Knowledge) 3
 PHIL 5 (Feminist Philosophy) 3
 PHIL 6 (Introduction to Logic) 3
 PHIL 8 (Logic and Argumentation) 3
 RELS 1 (Religions of the World) 3
 RELS 2 (Bible: History and Literature) 3
 RELS 3 (Intro To Women's Spirituality) 3

RELS 11 (The Nature of Islam) 3
 SPAN 2A (Intermediate Spanish I) 4
 SPAN 2B (Intermediate Spanish II) 4
 SPAN 21 (Spanish for Spanish Speakers I) 5
 SPAN 22 (Spanish for Spanish Speakers II) 5
 SPAN 23 (Introduction to Hispanic Literature) 3

Area D: Social Sciences (9-12 Units)

Select 3 courses, from at least 2 different disciplines; at least 9 units required

AJ 50 (Introduction to Administration of Justice) 3
 AJ 56 (Fundamentals of Crime and Delinquency) 3
 AJ 60 (Criminal Law) 3
 AJ 66 (Juvenile Procedures) 3
 AJ 78 (Introduction to Probation and Parole) 3
 ANTR 1 (Biological Anthropology) 3
 ANTR 2 (Introduction to Archaeology) 3
 ANTR 3 (Cultural Anthropology) 3
 ANTR 4 (Language and Culture) 3
 ANTR 5 (Cultures of the U.S. in Global Perspective) 3
 ANTR 6 (Anthropology of Sex and Gender) 3
 ANTR 7 (Native American Cultures of North America) 3
 ANTR 8 (World Prehistory In Archaeological Perspective) 3
 ANTR 12 (Magic/Religion/Witchcraft/Healing) 3
 BUSN 30 (Business Ethics and Society) 3
 CMST 4 (Introduction to Communication Studies) 3
 CMST 10 (Interpersonal Communication) 3
 CMST 11 (Intercultural Communication) 3
 ECE 56 (Child Growth and Development) 3
 ECE 62 (Child, Family and Community) 3
 ECE 79 (Teaching in a Diverse Society) 3
 ECON 1 (Principles of Microeconomics) 3
 ECON 2 (Principles of Macroeconomics) 3
 ECON 5 (Economic History of the United States) 3
 ECON 10 (General Economics) 3
 ENG 44 (Literature of the American West) 3
 GEOG 2 (Cultural Geography) 3
 GEOG 5 (World Regional Geography) 3
 GEOG 12 (Geography of California) 3
 GEOG 15 (Introduction to GIS) 3
 GS 1 (Introduction to Global Studies) 3
 GS 2 (Global Issues) 3
 HIST 1 (Western Civilization to 1600) 3
 HIST 2 (Western Civilization Since 1600) 3
 HIST 3 (World History to 1500) 3
 HIST 4 (World History since 1500) 3
 HIST 7 (US History Through Reconstruction) 3
 HIST 8 (US History Post-Reconstruction) 3
 HIST 14 (History and American Cultures of California) 3
 HIST 25 (American Indian History) 3
 HIST 28 (History of American West) 3
 HIST 32 (U.S. Women's History) 3
 HEA 3 (Women's Health) 3
 HEA 7 (Introduction to Public Health) 3
 HEA 11 (Health and Social Justice) 3
 JAMS 1 (Introduction to Mass Communications) 3
 JAMS 2 (Introduction to Media) 3
 MKTG 50 (Introduction to Marketing) 3
 PCN 3 (Theorys and Concepts of Counseling: An Introduction) 3

PCN 13 (Multicultural Issues in Contemporary America).....	3
POLI 7 (Introduction to American Government)	4
POLI 12 (Introduction to California State and Local Government) .	3
POLI 20 (Comparative Government).....	3
POLI 25 (Introduction to Political Theory).....	3
POLI 26 (Introduction to Gender, Sexuality, and Politics)	3
POLI 30 (International Relations).....	3
PSYC 1 (General Psychology).....	3
PSYC 3 (Introduction to Social Psychology)	3
PSYC 4 (Brain, Mind, and Behavior)	3
PSYC 6 (Abnormal Psychology)	3
PSYC 12 (Life-Span Psychology).....	3
PSYC 13 (Psychology of Women).....	3
PSYC 15 (Abnormal Child Psychology)	3
PSYC 25 (Research Methods).....	4
PSYC 27 (Introduction to Cognitive Science)	3
SOC 1 (Principles of Sociology)	3
SOC 3 (Introduction to Race and Ethnicity)	3
SOC 4 (Marriage and Family Relations)	3
SOC 5 (Introduction to Global Studies)	3
SOC 6 (Social Problems)	3
SOC 7 (Sociology of Sexuality)	3
SOC 11 (Sociology of Gender)	3
SOC 12 (Popular Culture)	3
SOC 13 (Research Methods).....	4
WMST 1 (Introduction to Women's Studies)	3
WMST 2 (Global Perspective of Women).....	3

Area E: Lifelong Learning and Self Development (3 Units)

Complete at least 3 units from below. Veterans with DD214 honorable discharge receive waiver for this area and 3 units toward CSU transfer

BIO 55 (Orientation to Health Care)	2
CMST 3 (Group Communication)	3
CMST 10 (Interpersonal Communication).....	3
CMST 11 (Intercultural Communication).....	3
DANC 2A (Jazz Dance Fundamentals/Beginning).....	1
DANC 2B (Jazz Dance Beginning/Intermediate)	1
DANC 3A (Ballet Fundamentals/Beginning)	1
DANC 4A (Modern/Contemporary Dance A).....	1
DANC 4B (Modern/Contemporary Dance B).....	1
DANC 5A (Dance Composition 5A)	1.5
DANC 5B (Dance Composition 5B).....	1.5
DANC 6A (Dance Production-Choreography A)	2
DANC 6B (Dance Production-Choreography B).....	2-3
ECE 54 (Child Health, Safety and Nutrition).....	3
ECE 56 (Child Growth and Development)	3
FST 7 (Fire Service Conditioning & Physical Agility Development).....	1
HEA 1 (Introduction to Personal Health)	3
HEA 3 (Women's Health)	3
KIN 22A (Science of Soccer 1)	3
KIN 24 (Sport Psychology)	3
KIN 26 (Coaching Youth Soccer).....	3
KIN 30 (Introduction to Kinesiology)	3
KIN 32A (Fall Intercollegiate Men's Basketball)	3
KIN 32B (Spring Intercollegiate Men's Basketball)	3
KIN 38A (Pre-Season Intercollegiate Men's Soccer).....	1-2

KIN 38B (Intercollegiate Men's Soccer)	3
KIN 38C (Post Season Intercollegiate Men's Soccer)	1-2
KIN 39A (Off Season Intercollegiate Golf)	1-2
KIN 39B (Intercollegiate Golf)	3
KIN 40A (Pre-Season Intercollegiate Women's Volleyball)	1
KIN 40B (In Season Intercollegiate Women's Volleyball)	1-3
KIN 40C (Off Season Intercollegiate Women's Volleyball).....	1-2
KIN 41A (Pre-Season Intercollegiate Women's Basketball).....	1-2
KIN 41B (Fall Intercollegiate Basketball - Women)	1.5
KIN 41C (Spring Intercollegiate Basketball - Women)	1.5
KIN 41D (Off Season Intercollegiate Women's Basketball)	1-2
KIN 42A (Off Season Intercollegiate Track & Field)	1-2
KIN 42B (Intercollegiate Track & Field)	3
KIN 48A (Pre-Season Intercollegiate Women's Soccer).....	1-2
KIN 48B (Intercollegiate Athletics: Women's Soccer)	3
KIN 48C (Off Season Intercollegiate Women's Soccer).....	1-2
KIN 50A (Pre-Season Intercollegiate Swimming & Diving).....	1-2
KIN 50B (Intercollegiate Swimming & Diving)	3
KIN 60 (Intercollegiate Water Polo -- Men's).....	3
KIN 61A (Pre-Season Intercollegiate Water Polo).....	0.5-2
KIN 61 (Off Season Intercollegiate Water Polo).....	0.5-2
KIN 65 (Intercollegiate Water Polo -- Women's).....	3
KIN AF1 (Aerobic Fitness 1)	1
KIN AF2 (Aerobic Fitness 1)	1
KIN AQA (Aqua Aerobics).....	1-2
KIN AR1 (Archery 1- Beginning Archery)	1
KIN BC1 (Boot Camp for Flexibility & Core Development)	1
KIN BC2 (Boot Camp for Aerobic Conditioning).....	1
KIN BC3 (Boot Camp for Power & Strength Training).....	1
KIN BD1 (Badminton 1)	1
KIN BD2 (Badminton 2)	1
KIN BD3 (Badminton 3)	1
KIN BK1 (Basketball 1)	1
KIN BK2 (Basketball 2).....	1
KIN BK3 (Basketball 3).....	1
KIN BK4 (Basketball 4)	1
KIN BL1 (Bowling 1).....	1
KIN BL2 (Bowling 2).....	1
KIN BL3 (Bowling 3).....	1
KIN BL4 (Bowling 4)	1
KIN BX1 (Box Aerobics 1)	1
KIN BX2 (Box Aerobics 2).....	1
KIN BX3 (Box Aerobics 3).....	1
KIN CR1 (Cricket 1).....	1
KIN CR2 (Cricket 2)	1
KIN CRT (Cross Training).....	1
KIN CT1 (Circuit Training 1)	1
KIN CYCL1 (Cycling 1)	1
KIN CYCL2 (Cycling 2).....	1
KIN CYCL3 (Cycling 3)	1
KIN DA1 (Dance Aerobics 1)	1
KIN DV1 (Springboard Diving)	1
KIN ETD1 (Eskrima - Tenio DeCuerdas 1)	1
KIN ETD2 (Eskrima - Tenio DeCuerdas 2)	1
KIN ETD3 (Eskrima - Tenio DeCuerdas 3)	1
KIN ETD4 (Eskrima - Tenio DeCuerdas 4)	1
KIN FC (Fitness Center)	1
KIN FD (Fitness Development)	1
KIN FG1 (Footgolf 1)	1
KIN FG2 (Footgolf 2)	1

KIN FG3 (Footgolf 3).....	1	KIN WTW1 (Women's Weight Training 1).....	1
KIN FGS1 (Footgolf Summer 1).....	0.5	KIN WTW2 (Women's Weight Training 2).....	1
KIN FGS2 (Footgolf Summer 2).....	0.5	KIN YIN1 (Yin Yoga 1).....	1
KIN FGS3 (Footgolf Summer 3).....	0.5	KIN YO1 (Yoga 1).....	1
KIN FL1 (Flag Football 1).....	1	KIN YO2 (Yoga 2).....	1
KIN FL2 (Flag Football 2).....	1	KIN YO3 (Yoga 3).....	1
KIN FL3 (Flag Football 3).....	1	KIN YO4 (Yoga 4).....	1
KIN FL4 (Flag Football 4).....	1	KIN ZUM1 (Zumba Fitness Workout 1).....	1
KIN FNE1 (Fencing - Epee 1).....	1	NTRN 1 (Introduction to Nutritional Science).....	3
KIN FNE2 (Fencing - Epee 2).....	1	PCN 10 (Career and Educational Planning).....	2
KIN FNF1 (Fencing - Foil 1).....	1	PCN 18 (University Transfer Planning).....	0.5-1
KIN FNF2 (Fencing - Foil 2).....	1	PCN 30 (Student Success and the College Experience).....	3
KIN FJW1 (Fitness Jog Walk 1).....	1	PSYC 10 (Psychology of Human Sexuality).....	3
KIN FJW2 (Fitness Jog Walk 2).....	1	PSYC 12 (Life-Span Psychology).....	3
KIN FJW3 (Fitness Jog Walk 3).....	1	SOC 4 (Marriage and Family Relations).....	3
KIN FJW4 (Fitness Jog Walk 4).....	1	SOC 7 (Sociology of Sexuality).....	3
KIN GBW1 (Guts and Butts Workout 1).....	1	Total Units	39-55
KIN GBW2 (Guts and Butts Workout 2).....	1	Earning this Certificate of Achievement will not replace the "CSU GE Certification" document. The "Certification of CSU General Education Breadth" is a separate process. The student must request CSU GE Certification in the Admissions and Records Office after admission to the transfer institution.	
KIN GF1 (Golf 1).....	1	Certificate of Achievement IGETC (Intersegmental General Education Curriculum)	
KIN GF2 (Golf 2).....	1		
KIN GF3 (Golf 3).....	1	About the Certificate	
KIN GF4 (Golf 4).....	1	Students transferring to University of California or California State University have the opportunity to complete their lower division general education requirements at Las Positas College. This pattern of general education requires a minimum of 34 semester units to be completed. The Certificate of Achievement in University Transfer - IGETC will officially acknowledge a significant educational achievement the student has completed at Las Positas College. Counselor assistance is advised.	
KIN HIT1 (High-Intensity Interval Training (HIIT).....	1	Program Outcomes	
KIN JDR1 (Jujutsu - Danzan Ryu 1).....	1	<ul style="list-style-type: none"> • Upon completion of the Certificate of Achievement in IGETC (Intersegmental General Education Curriculum), students are able to understand and appreciate the diversity of the human experience. • Upon completion of the Certificate of Achievement in IGETC (Intersegmental General Education Curriculum), students are able to read, write, speak, and listen to communicate effectively. • Upon completion of the Certificate of Achievement in IGETC (Intersegmental General Education Curriculum), students are able to recognize ethical principles and behave responsibly. • Upon completion of the Certificate of Achievement in IGETC (Intersegmental General Education Curriculum), students are able to use and criticize quantitative arguments. • Upon completion of the Certificate of Achievement in IGETC (Intersegmental General Education Curriculum), students are able to analyze and appreciate works of philosophical, historical, 	
KIN JDR2 (Jujutsu - Danzan Ryu 2).....	1		
KIN JDR3 (Jujutsu - Danzan Ryu 3).....	1		
KIN JDR4 (Jujutsu - Danzan Ryu 4).....	1		
KIN LG (Lifeguarding).....	1.5		
KIN OM1 (Optimal Movement 1).....	1		
KIN PF (Personal Fitness).....	1		
KIN PL1 (Pilates 1).....	1		
KIN PL2 (Pilates 2).....	1		
KIN SD1 (Salsa Dance 1).....	1		
KIN SI1 (Soccer - Indoor 1).....	1		
KIN SI2 (Soccer - Indoor 2).....	1		
KIN SO1 (Soccer - Outdoor 1).....	1		
KIN SO2 (Soccer - Outdoor 2).....	1		
KIN SW1 (Swimming 1).....	1		
KIN SW2 (Swimming 2).....	1		
KIN SW3 (Swimming 3).....	1		
KIN SW4 (Swimming 4).....	1		
KIN SWF1 (Swimming for Fitness 1).....	1		
KIN SWF2 (Swimming for Fitness 2).....	1		
KIN SWF3 (Swimming for Fitness 3).....	1		
KIN SWF4 (Swimming for Fitness 4).....	1		
KIN TK1 (Tae Kwon Do 1).....	1		
KIN TK2 (Tae Kwon Do 2).....	1		
KIN TK3 (Tae Kwon Do 3).....	1		
KIN UF1 (Ultimate Frisbee 1).....	1		
KIN UF2 (Ultimate Frisbee 2).....	1		
KIN UF3 (Ultimate Frisbee 3).....	1		
KIN UF4 (Ultimate Frisbee 4).....	1		
KIN VB1 (Volleyball Beginning).....	1		
KIN VB2 (Volleyball Intermediate).....	1		
KIN VB3 (Volleyball Advanced).....	1		
KIN WP1 (Water Polo 1).....	1		
KIN WP2 (Water Polo 2).....	1		
KIN WP3 (Water Polo 3).....	1		
KIN WT1 (Weight Training 1).....	1		
KIN WT2 (Weight Training 2).....	1		

literary, and cultural importance.

- Upon completion of the Certificate of Achievement in IGETC (Intersegmental General Education Curriculum), students are able to understand experimental methodology, the testing of hypotheses, and the power of systematic questioning.

1A: English Communication (6-11 Units)

CSU: Select 3 courses, 1 from 1A, 1B, and 1C; at least 9 units required

UC: Select 2 courses, 1 from 1A and 1B; at least 6 units required

1A: English Composition

Select 1 Course

ENG 1A (Critical Reading and Composition)	3
ENG 1AEX (Critical Reading and Composition Expanded)	4

1B: Critical Thinking/ English Composition

Select 1 Course

ENG 4 (Critical Thinking and Writing about Literature)	3
ENG 7 (Critical Thinking and Writing Across Disciplines)	3
PHIL 8 (Logic and Argumentation)	4
THEA 53 (Script Analysis)	3

1C: Oral Communication

Select 1 Course

CSU Requirement Only

CMST 1 (Fundamentals of Public Speaking)	3
CMST 10 (Interpersonal Communication)	3
CMST 46 (Argumentation and Debate)	3

Area 2: Mathematical Concepts and Quantitative Reasoning (3-5 Units)

Select 1 course at least 3 units required

CS 17 (Discrete Mathematical Structures)	4
MATH 1 (Calculus I).....	5
MATH 2 (Calculus II)	5
MATH 3 (Multivariable Calculus).....	5
MATH 5 (Ordinary Differential Equations).....	3.5
MATH 7 (Elementary Linear Algebra)	3.5
MATH 10 (Discrete Mathematical Structures).....	4
MATH 30 (College Algebra for STEM)	4
MATH 33 (Finite Mathematics)	4
MATH 34 (Calculus for Business and Social Sciences).....	5
MATH 40 (Statistics and Probability)	4
MATH 47 (Mathematics for Liberal Arts)	3

Area 3: Arts and Humanities (9-14 Units)

Select 3 courses: 1 course from Arts, 1 course from Humanities, and 1 course from either area; at least 9 units required

3A: Arts

Select at least 1 course

ARHS 1 (Introduction to Art History)	3
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ARHS 2 (Art of the Ancient Americas)	3
ARHS 3 (Arts of Africa, Oceania, and Indigenous North Americas) ..	3
ARHS 4 (Western Art History - Ancient to Medieval)	3
ARHS 5 (Western Art History - Renaissance to Contemporary)	3
ARHS 7 (Modern Art History)	3
ARHS 8 (Asian Art History)	3
GDDM 3 (The History of Modern Design)	3
HUMN 2 (Introduction to Film Studies)	3
HUMN 4 (Global Cinemas)	4
HUMN 11 (Culture and the Arts I: Ancient World to the Renaissance).....	3
HUMN 12 (Culture and the Arts I: The Modern World)	3
MUS 1 (Introduction to Music)	3
MUS 3 (World Music).....	3
MUS 4 (Jazz in American Culture)	3
MUS 5 (American Cultures in Music)	3
MUS 8A (Music Theory and Musicianship 1)	4
MUS 8B (Music Theory and Musicianship 2)	4
MUS 13 (History of Rock & Roll)	3
MUS 34 (Music in Film)	3
PHTO 67 (History of Photography).....	3
THEA 4 (American Cultures in Theater)	3
THEA 10 (Introduction to Dramatic Arts).....	3
THEA 11 (Stage to Screen)	3
THEA 12 (Film As Art & Communication).....	4
THEA 14 (Bay Area Theater)	3
THEA 53 (Script Analysis)	3

3B: Humanities

Select at least 1 course

ASL 2A (American Sign Language III)	3
ASL 2B (American Sign Language IV).....	3
ENG 4 (Critical Thinking and Writing about Literature)	3
ENG 7 (Critical Thinking and Writing Across Disciplines)	3
ENG 20 (Studies in Shakespeare).....	3
ENG 32 (U.S. Women's Literature).....	3
ENG 35 (Modern American Literature).....	3
ENG 41 (World Literature: 17th Century to the Present)	3
ENG 42 (Literature of the African Diaspora in America)	3
ENG 44 (Literature of the American West)	3
ENG 45 (Studies in Fiction)	3
FREN 2A (Intermediate French I)	4
FREN 2B (Intermediate French II)	4
HIST 1 (Western Civilization to 1600).....	3
HIST 2 (Western Civilization Since 1600).....	3
HIST 3 (World History to 1500)	3
HIST 4 (World History since 1500).....	3
HIST 7 (US History Through Reconstruction).....	3
HIST 8 (US History Post-Reconstruction).....	3
HIST 14 (History and American Cultures of California)	3
HIST 25 (American Indian History).....	3
HIST 32 (U.S. Women's History)	3
HUMN 2 (Introduction to Film Studies)	3
HUMN 3 (Introduction to Humanities).....	3
HUMN 4 (Global Cinemas)	4
HUMN 6 (Nature and Culture)	3
HUMN 10 (American Arts and Ideas).....	3
HUMN 11 (Culture and the Arts I: Ancient World to the Renaissance).....	3
HUMN 12 (Culture and the Arts I: The Modern World)	3

HUMN 28 (World Mythology).....	3	HIST 8 (US History Post-Reconstruction).....	3
MUS 34 (Music in Film).....	3	HIST 14 (History and American Cultures of California).....	3
PHIL 1 (God, Nature, Human Nature).....	3	HIST 25 (American Indian History).....	3
PHIL 1H (Honors Philosophy 1: God, Nature, Human Nature).....	3	HIST 28 (History of American West).....	3
PHIL 2 (Ethics).....	3	HIST 32 (U.S. Women's History).....	3
PHIL 2H (Honors Philosophy 2: Ethics).....	3	JAMS 1 (Introduction to Mass Communications).....	3
PHIL 3 (Aesthetics).....	3	JAMS 2 (Introduction to Media).....	3
PHIL 4 (Intro to Philosophy: Knowledge).....	3	PCN 13 (Multicultural Issues in Contemporary America).....	3
PHIL 5 (Feminist Philosophy).....	3	POLI 7 (Introduction to American Government).....	4
PHIL 6 (Introduction to Logic).....	3	POLI 12 (Introduction to California State and Local Government).....	3
PHIL 8 (Logic and Agrumentation).....	3	POLI 20 (Comparative Government).....	3
RELS 1 (Religions of the World).....	3	POLI 25 (Introduction to Political Theory).....	3
RELS 2 (Bible: History and Literature).....	3	POLI 26 (Introduction to Gender, Sexuality, and Politics).....	3
RELS 3 (Intro To Women's Spirituality).....	3	POLI 30 (International Relations).....	3
RELS 11 (The Nature of Islam).....	3	PSYC 1 (General Psychology).....	3
SPAN 2A (Intermediate Spanish I).....	4	PSYC 3 (Introduction to Social Psychology).....	3
SPAN 2B (Intermediate Spanish II).....	4	PSYC 4 (Brain, Mind, and Behavior).....	3
SPAN 21 (Spanish for Spanish Speakers I).....	5	PSYC 6 (Abnormal Psychology).....	3
SPAN 22 (Spanish for Spanish Speakers II).....	5	PSYC 12 (Life-Span Psychology).....	3
SPAN 23 (Introduction to Hispanic Literature).....	3	PSYC 13 (Psychology of Women).....	3

Area 4: Social and Behavioral Sciences (9-12 Units)

Select 3 courses from at least 2 different disciplines; at least 9 units required

AJ 50 (Introduction to Administration of Justice).....	3	SOC 1 (Principles of Sociology).....	3
AJ 60 (Criminal Law).....	3	SOC 3 (Introduction to Race and Ethnicity).....	3
AJ 66 (Juvenile Procedures).....	3	SOC 4 (Marriage and Family Relations).....	3
AJ 78 (Introduction to Probation and Parole).....	3	SOC 5 (Introduction to Global Studies).....	3
ANTR 1 (Biological Anthropology).....	3	SOC 6 (Social Problems).....	3
ANTR 2 (Introduction to Archaeology).....	3	SOC 7 (Sociology of Sexuality).....	3
ANTR 3 (Cultural Anthropology).....	3	SOC 11 (Sociology of Gender).....	3
ANTR 4 (Language and Culture).....	3	SOC 12 (Popular Culture).....	3
ANTR 5 (Cultures of the U.S. in Global Perspective).....	3	SOC 13 (Research Methods).....	4
ANTR 6 (Anthropology of Sex and Gender).....	3	WMST 1 (Introduction to Women's Studies).....	3
ANTR 7 (Native American Cultures of North America).....	3	WMST 2 (Global Perspective of Women).....	3
ANTR 8 (World Prehistory In Archaeological Perspective).....	3		
ANTR 12 (Magic/Religion/Witchcraft/Healing).....	3		
CMST 4 (Introduction to Communication Studies).....	3		
CMST 10 (Interpersonal Communication).....	3		
CMST 11 (Intercultural Communication).....	3		
ECE 56 (Child Growth and Development).....	3		
ECON 1 (Principles of Microeconomics).....	3		
ECON 2 (Principles of Macroeconomics).....	3		
ECON 5 (Economic History of the United States).....	3		
ECON 10 (General Economics).....	3		
GEOG 2 (Cultural Geography).....	3		
GEOG 5 (World Regional Geography).....	3		
GEOG 12 (Geography of California).....	3		
GS 1 (Introduction to Global Studies).....	3		
GS 2 (Global Issues).....	3		
HEA 3 (Women's Health).....	3		
HEA 7 (Introduction to Public Health).....	3		
HEA 11 (Health and Social Justice).....	3		
HIST 1 (Western Civilization to 1600).....	3		
HIST 2 (Western Civilization Since 1600).....	3		
HIST 3 (World History to 1500).....	3		
HIST 4 (World History since 1500).....	3		
HIST 7 (US History Through Reconstruction).....	3		

Area 5: Physical Science and Biological Science (7-10)

Select 1 Physical Science course, 1 Biological Science course, and 1 course with a Lab; at least 7 units required

5A: Physical Science

ASTR 10 (Introduction to Astronomy: The Solar System).....	3
ASTR 20 (Introduction to Astronomy: Stars and the Universe).....	3
CHEM 1A* (General College Chemistry I).....	5
CHEM 1B* (General College Chemistry II).....	5
CHEM 12A* (Organic Chemistry I).....	5
CHEM 12B* (Organic Chemistry II).....	5
CHEM 30A* (Introductory and Applied Chemistry I).....	4
CHEM 30B* (Introductory and Applied Chemistry II).....	4
CHEM 31* (Introduction to College Chemistry).....	4
EVST 5 (Energy and Sustainability).....	3
GEOG 1 (Introduction to Physical Geography).....	3
GEOG 8 (Introduction to Atmospheric Science).....	3
GEOG 12 (Geography of California).....	3
GEOL 1 (Physical Geology).....	3
GEOL 2* (Historical Geology with Lab).....	4
GEOL 5 (Environmental Geology: Hazards & Disasters).....	3
GEOL 7 (Environmental Geology: Resources,	

Use Impact & Pollution).....	3
GEOL 12 (Introduction to Oceanography).....	3
GEOL 20* (Earth Science for Educators).....	4
PHYS 1A* (General Physics I).....	5
PHYS 1B* (General Physics II).....	5
PHYS 1C* (General Physics III).....	5
PHYS 1D* (General Physics IV).....	3
PHYS 2A* (Introduction to Physics I).....	4
PHYS 2B* (Introduction to Physics II).....	4
PHYS 10 (Descriptive Physics).....	3

5B: Biological Science

ANTR 1 (Biological Anthropology).....	3
ANTR 13 (Introduction to Forensic Anthropology).....	3
BIO 1A* (General Botany).....	5
BIO 1B* (General Zoology).....	5
BIO 1C* (Cell and Molecular Biology).....	5
BIO 7A* (Human Anatomy).....	5
BIO 7B* (Human Physiology).....	5
BIO 7C* (Microbiology).....	5
BIO 10* (Introduction to the Science of Biology).....	4
BIO 20 (Contemporary Human Biology).....	3
BIO 30* (Introduction to College Biology).....	4
BIO 40 (Humans and the Environment).....	3
BIO 50* (Anatomy and Physiology).....	4
BIO 60* (Marine Biology).....	4
PSYC 4 (Brain, Mind, and Behavior).....	3

5C: Laboratory Science Requirement

Complete at least 1 course from below or from above marked with an *

ANTR 1L (Biological Anthropology Lab).....	1
ANTR 2L (Archaeology Field Lab).....	1
ASTR 30L (Introduction to Astronomy Lab).....	1
GEOG 1L (Introduction to Physical Geography Laboratory).....	1
GEOL 1L (Physical Geology Laboratory).....	1
GEOL 12L (Intro to Oceanography Lab).....	1
PHYS 10L (Descriptive Physics Lab).....	1

Area 6: Language other than English - UC Requirement Only (0-5 Units)

Proficiency in a language other than English may be met in one of the following was:

1.) Complete 1 of the following courses or a higher level.

ASL 1A (American Sign Language I).....	3
ASL 1B (American Sign Language II).....	3
ASL 2A (American Sign Language III).....	3
ASL 2B (American Sign Language IV).....	3
FREN 1A (Beginning French).....	5
FREN 1B (Elementary French).....	5
FREN 2A (Intermediate French I).....	4
FREN 2B (Intermediate French II).....	4
SPAN 1A (Beginning Spanish).....	5
SPAN 1B (Elementary Spanish).....	5
SPAN 2A (Intermediate Spanish I).....	4
SPAN 2B (Intermediate Spanish II).....	4
SPAN 21 (Spanish for Spanish Speakers I).....	5

SPAN 22 (Spanish for Spanish Speakers II).....	5
SPAN 23 (Introduction to Hispanic Literature).....	3

2.) Complete 2 years of high school study in the same language, with a grade of ‘C-’ or better in the final term.

3.) Demonstrating equivalent proficiency prior to transfer or AP Language & Cultures exam with score of 3 or higher.

Total Units34-57

Earning this Certificate of Achievement will not replace the “IGETC Certification” document. The “Certification of IGETC” is a separate process. The student must request IGETC Certification in the Admissions and Records Office after admission to the transfer institution.

VITICULTURE & WINERY TECHNOLOGY

The program options in the Viticulture and Winery Technology Program are designed to prepare students for careers in the wine industry. VWT students may enter the program at the level most suited to their needs and take as few or as many courses as they need to meet their objectives.

There are both Certificates and Associate of Science Degrees available to provide students with the knowledge and skills essential for success. Students are also able to pursue their studies in either of two tracks: Viticulture (grape growing) or Enology (wine making) by taking a series of production-oriented courses. Students may also elect to complete an Associate of Science degree in either Viticulture or Enology.

For more information please see:
<http://www.laspositascollege.edu/vwt/index.php>

Programs of Study

Degrees:

- AS – Enology
- AS – Viticulture

Certificates of Achievement:

- Enology
- Viticulture
- Wine Hospitality

Career Opportunities

The program emphasizes the application of viticulture and winemaking theory for decision-making in actual production situations. The Viticulture and Winery Technology Program prepares students for direct entry in the wine industry upon completion of their course of study at Las Positas College. Also, students currently employed in the wine industry may upgrade and update their skills and knowledge, and those with a general interest in wines, pairing wine and food, and viticulture and grapevines may take classes for enjoyment and further knowledge.

AS – Enology

About the Degree

The Associate of Science in Enology degree prepares students for either entry-level employment or further study in the field of Enology, or wine-making. The Enology A.S. includes courses in viticulture and winery technology, science, and general education courses. Students will gain both theoretical knowledge as well as hands-on experience

on state-of-the-art winery equipment.

Career Opportunities

There are more than 4,700 bonded wineries in California. From established wineries to new ventures, well-trained winery personnel are needed in many positions. Career opportunities related to enology include: winemaker, assistant winemaker, wine analysis lab technician, oenologist, winery supervisor, quality control, production manager, tasting room director, wine sales, wine service, wine hospitality, grape/juice buyer, equipment supplier, wine label design and packaging.

Program Outcomes

- Upon completion of the AS in Enology, students are able to apply general chemistry principles, wine microbiology fundamentals, and laboratory techniques to produce sound wines.
- Upon completion of the AS in Enology, students are able to safely start-up, operate, and shutdown winery equipment; and effectively utilize the equipment during the winemaking process.
- Upon completion of the AS in Enology, students are able to perform an accurate wine assessment utilizing acquired organoleptic skills.
- Upon completion of the AS in Enology, students are able to perform wine analysis methods including laboratory/quality control test during harvest, fermentations, cellaring, and prior to bottling.

Required Core: (28 Units)

CHEM 1A (General College Chemistry I).....	5
VWT 10 (Introduction to Viticulture).....	3
VWT 20 (Introduction to Enology).....	3
VWT 21 (Applied Enology).....	3
VWT 25 (Sensory Analysis of Wines).....	3
VWT 23 (Fundamentals of Wine Science).....	3
VWT 41 (Fall Winery Operations).....	3
VWT 42 (Spring Winery Operations).....	3
WRKX 94 (Occupational Work Experience/Internship).....	2

List A: Select One (3 Units)

VWT 1 (World Wines: New World).....	3
VWT 2 (World Wines: Old World).....	3
VWT 47 (Wine Regions/Wines of Calif).....	3

Program-Based GE[^]: (4 Units)

CHEM 31 (Introduction to College Chemistry).....	4
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Total Units for the Major 31

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth,

or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

AS – Viticulture

About the Degree

The Associate of Science in Viticulture degree prepares students for either entry-level employment or further study in the field of Viticulture, or grape-growing. The Viticulture A.S. includes courses in viticulture and winery technology, science, and general education courses. Students will gain both theoretical knowledge as well as hands-on experience in the college's onsite Campus Hill Vineyard.

Career Opportunities

California produces 90 percent of the U.S. wine. From established vineyards to new ventures, well-trained wine industry personnel are needed in many positions. Career opportunities related to viticulture include: vineyard manager, vineyard design and development, pest control, irrigation specialist, vineyard crew supervisor, equipment supervisor, quality control, production manager, wine hospitality, grape/juice sales, wine label design and packaging.

Program Outcomes

- Upon completion of the AS in Viticulture, students are able to contribute to the wine grape industry and participate in professional organizations at the local, state-wide, national and/or international levels.
- Upon completion of the AS in Viticulture, students are able to describe the latest technological advances in vineyard practices and incorporate current technology into their farming plans.
- Upon completion of the AS in Viticulture, students are able to identify, plan, and implement sustainable farming practices that will improve fruit quality, provide efficacious pest and disease management, and protect natural resources and the environment.
- Upon completion of the AS in Viticulture, students are able to show leadership capabilities by effectively training others to perform hands-on vineyard tasks.
- Upon completion of the AS in Viticulture, students are able to work cooperatively and effectively with winery personnel to determine optimum harvest parameters and coordinate the operations required.
- Upon completion of the AS in Viticulture, students are able to use proficient knowledge of the seasonal requirements of a working vineyard.

Required Core: (24 Units)

VWT 10 (Introduction to Viticulture)	3
VWT 12 (Landscape and Vineyard Soils, Fertilizers, and Irrigation)3	

VWT 20 (Introduction to Enology).....	3
VWT 25 (Sensory Analysis of Wines).....	3
VWT 31 (Fall Vineyard Operations).....	3
VWT 32 (Spring Vineyard Operations).....	3
VWT 33 (Summer Viticulture Operations).....	1
VWT 35 (Landscape and Vineyard Pest and Disease Management).3	
WRKX 94 (Occupational Work Experience/Internship)	2

List A: Select One (4 Units)

CHEM 30A (Introductory and Applied Chemistry I)	4
CHEM 31* (Introduction to College Chemistry)	4

List B: Select One (3-5 Units)

BIO 1A (General Botany).....	5
GEOG 1 (Introduction to Physical Geography).....	3
GEOG 12 (Geography of California).....	3
GEOG 15 (Introduction to GIS).....	3

List C: Select One (3 Units)

VWT 1 (World Wines: New World).....	3
VWT 2 (World Wines: Old World).....	3
VWT 47 (Wine Regions/Wines of Calif)	3

Program-Based GE[^]: Select One (4 Units)

BIO 10 (Introduction to the Science of Biology).....	4
BIO 30** (Introduction to College Biology)	4

Total Units for the Major34-36

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

* Recommended for students considering transfer.

** Recommended for students that plan to take BIO 1A.

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Certificate of Achievement Enology

About the Certificate

The Certificate of Achievement in Enology prepares students for entry-level employment in the field of Enology, or wine-making. The Certificate consists of core courses in wine-making and science, and

focuses on the production of quality wines. Students will gain both theoretical knowledge as well as hands-on experience on state-of-the-art winery equipment.

Career Opportunities

There are more than 4,700 bonded wineries in California. From established wineries to new ventures, well-trained winery personnel are needed in many positions. Career opportunities related to enology include: winemaker, assistant winemaker, wine analysis lab technician, oenologist, winery supervisor, quality control, production manager, tasting room director, wine sales, wine service, wine hospitality, grape/juice buyer, equipment supplier, wine label design and packaging.

Program Outcomes

- Upon completion of the Certificate of Achievement in Enology, students are able to apply general chemistry principles, wine microbiology fundamentals, and laboratory techniques to produce sound wines.
- Upon completion of the Certificate of Achievement in Enology, students are able to safely start-up, operate, and shutdown winery equipment; and effectively utilize the equipment during the winemaking process.
- Upon completion of the Certificate of Achievement in Enology, students are able to perform an accurate wine assessment utilizing acquired organoleptic skills.
- Upon completion of the Certificate of Achievement in Enology, students are able to perform wine analysis methods including laboratory/quality control test during harvest, fermentations, cellaring, and prior to bottling.

Required Core: (23 Units)

VWT 10 (Introduction to Viticulture)	3
VWT 20 (Introduction to Enology)	3
VWT 21 (Applied Enology)	3
VWT 23 (Fundamentals of Wine Science)	3
VWT 25 (Sensory Analysis of Wines)	3
VWT 41 (Fall Winery Operations)	3
VWT 42 (Spring Winery Operations)	3
WRKX 94 (Occupational Work Experience/Internship)	2

List A: Select One (3 Units)

VWT 1 (World Wines: New World)	3
VWT 2 (World Wines: Old World)	3
VWT 47 (Wine Regions/Wines of Calif)	3

Total Units 26

Certificate of Achievement Viticulture

About the Certificate

The Certificate of Achievement in Viticulture prepares students for entry-level employment in the field of Viticulture, or grape-growing. The Certificate consists of core courses in viticulture and science, and

focuses on the production of quality wine grapes. Students will gain both theoretical knowledge as well as hands-on experience in the college's onsite Campus Hill Vineyard.

Career Opportunities

California produces 90 percent of the U.S. wine. From established vineyards to new ventures, well-trained wine industry personnel are needed in many positions. Career opportunities related to viticulture include: vineyard manager, vineyard design and development, pest control, irrigation specialist, vineyard crew supervisor, equipment supervisor, quality control, production manager, wine hospitality, grape/juice sales, wine label design and packaging.

Program Outcomes

- Upon completion of the Certificate of Achievement in Viticulture, students are able to describe the latest technological advances in vineyard practices and incorporate current technology into their farming plans.
- Upon completion of the Certificate of Achievement in Viticulture, students are able to identify, plan, and implement sustainable farming practices that will improve fruit quality, provide efficacious pest and disease management, and protect natural resources and the environment.
- Upon completion of the Certificate of Achievement in Viticulture, students are able to show leadership capabilities by effectively training others to perform hands-on vineyard tasks.
- Upon completion of the Certificate of Achievement in Viticulture, students are able to work cooperatively and effectively with wineries to determine optimum harvest parameters and coordinate the operations required.

Required Core: (24 Units)

VWT 10 (Introduction to Viticulture)	3
VWT 12 (Landscape and Vineyard Soils, Fertilizers, and Irrigation)	3
VWT 20 (Introduction to Enology)	3
VWT 25 (Sensory Analysis of Wines)	3
VWT 31 (Fall Vineyard Operations)	3
VWT 32 (Spring Vineyard Operations)	3
VWT 33 (Summer Viticulture Operations)	1
VWT 35 (Landscape and Vineyard Pest and Disease Management)	3
WRKX 94 (Occupational Work Experience/Internship)	2

List A: Select One (3 Units)

VWT 1 (World Wines: New World)	3
VWT 2 (World Wines: Old World)	3
VWT 47 (Wine Regions/Wines of Calif)	3

Total Units 27

Certificate of Achievement Wine Hospitality

About the Certificate

The Certificate of Achievement in Wine Hospitality provides students with the wine knowledge, technical sales and service abilities,

and social skills necessary to be a great host in wine country. The Certificate is ideal for current or future wine servers in restaurants, tasting rooms, wine bars, or catering events.

Career Opportunities

There are more than 23 million tourist visits to California wine regions. Taking care of these wine country visitors requires wine hospitality professionals. Career opportunities in wine hospitality include sommeliers, tasting room managers, wine servers, director of winery tours, and special event coordinators.

Program Outcomes

- Upon completion of the Certificate of Achievement in Wine Hospitality, students are able to demonstrate proper wine service.
- Upon completion of the Certificate of Achievement in Wine Hospitality, students are able to describe a wine's qualities.

Required Core: (10 Units)

VWT 1 (World Wines: New World) or VWT 2 (World Wines: Old World).....	3
VWT 45 (Food and Wine Pairing)	2
VWT 47 (Wine Regions/Wines of Calif)	3
VWT 55 (Wine Service and Sales)	2
Total Units	10

Viticulture & Winery Technology Courses (VWT)

VWT 1 WORLD WINES: NEW WORLD 3 UNITS

This course is a comprehensive exploration of "new world" wines. The winemakers of the "new world" have taken the great grapes of the "old world" and created modern wines for a new generation. Explore the history of wine regions, origins of cultivars and the varied wines of the United States, Australia, New Zealand, South Africa, South America and Mexico. Students under the age of 21 must have a declared major of either viticulture and/or enology to participate in any tasting activities as stated in the California State Assembly Bill 1989. 54 hours lecture. Transfer: CSU, UC*. *VWT 1, 2, 10, and 20 combined: maximum UC credit, 3 units.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: GR

VWT 2 WORLD WINES: OLD WORLD 3 UNITS

This course is a comprehensive exploration of "old world" wines. The winemakers of the "old world" have been creating distinctive wines for millennia and now have embraced modern techniques and equipment to add another facet to the wines of Europe and beyond. Explore the history of wine regions, wine cultures, and the varied wines of France, Italy, Spain, Portugal, Germany, and Eastern Europe. Students under the age of 21 must have a declared major of either viticulture and/or enology to participate in any tasting activities as stated in the California State Assembly Bill 1989. 54 hours lecture. Transfer: CSU, UC*. *VWT 1, 2, 10, and 20 combined: maximum UC credit, 3 units.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: GR

VWT 10 INTRODUCTION TO VITICULTURE 3 UNITS

This is an introduction to general viticulture covering the fundamental principles of the biology and culture of the grapevine. This includes taxonomy, morphology, physiology, distribution, domestication, utilization, propagation, production systems, harvesting, and storage and processing of grapes, with a brief overview of wine making. The class explores climate and soil preferences of *Vitus vinifera*, vineyard establishment, and training young vines. Cultural practice lectures will focus on canopy management disciplines, irrigation strategies, fertilization, pest and disease control, cover cropping and pruning. There will be practical experience workshops in the Campus Hill Vineyard. Successful completion of course should prepare students for upper division courses in viticulture. Students under the age of 21 must have a declared major of either viticulture and/or enology to participate in any tasting activities as stated in the California State Assembly Bill 1989. 54 hours lecture. Transfer: CSU, UC*. *VWT 1, 2, 10, and 20 combined: maximum UC credit, 3 units.

Degree Applicable, Credit Grading Option: GR

VWT 12 LANDSCAPE AND VINEYARD SOILS, FERTILIZERS, AND IRRIGATION 3 UNITS

This course is a study of the physical, chemical and biological properties of soil. Areas of study will include: soil classification, derivation, uses, function and management including erosion, moisture retention, structure, cultivation, organic matter and microbiology. There is a focus on vineyard and landscape planting media, soil substitutes, hydroponics, and amendments to improve and promote plant growth which includes plant and vine nutrition, essential nutrients required for plant growth and healthy development. There will be instruction covering materials used for fertilizers which includes material origins, use, and application; and irrigation systems which will cover materials required for basic irrigation systems used in vineyard and landscape settings. Students that take HORT 54 may not receive credit for VWT 12. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

VWT 20 INTRODUCTION TO ENOLOGY 3 UNITS

This course is an overview of the history of wine, modern viticulture and enology principles and practices, the science of fermentation, and standard winery operations. There is a primer on grape varieties and wine styles produced in major wine-producing regions of the world including California which will focus on regional stylistic expression of specific, heritage varieties. Instruction covering the physiology of wine consumption will precede practical exercises which will include the sensory evaluation of wines. Students under the age of 21 must have a declared major of either viticulture and/or enology to participate in any tasting activities as stated in the California State Assembly Bill 1989. 54 hours lecture. Transfer: CSU, UC*. *VWT 1, 2, 10, and 20 combined: maximum UC credit, 3 units.

Degree Applicable, Credit Grading Option: GR

VWT 21 APPLIED ENOLOGY 3 UNITS

This is a fundamental course in the science and art of winemaking focusing on grape and wine chemistry, basic grape processing and wine production from vineyard to bottle. Lectures will build on the development of wine from the components in grapes through maturation, including ripeness parameters, pre and post fermentation management, alcoholic and malolactic fermentation. There will be a focus on wine health and integrity, the role and behavior of compounds found in musts and yeasts, and the relationship between wine and oak. There will be a strong emphasis on analytical methods and practical skills. Students under the age of 21 must have a declared major of either viticulture and/or enology to participate in any tasting activities as stated in the California State Assembly Bill 1989. Strongly Recommended: VWT 20 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

VWT 23 FUNDAMENTALS OF WINE SCIENCE 3 UNITS

This course covers the chemistry and microbiology of winemaking including the use of yeasts and enzymes, primary and secondary fermentation management, wine micro-organisms, phenolic compounds, color chemistry, aging and flavor development. There will be a focus on wine faults: the causes and corrections. Students under the age of 21 must have a declared major of either viticulture and/or enology to participate in any tasting activities as stated in the California State Assembly Bill 1989. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

VWT 25 SENSORY ANALYSIS OF WINES 3 UNITS

This is a sensory analysis of wine course designed for individuals to learn organoleptic tasting techniques, characteristics and styles of wine varieties, wine sensory evaluation methods including statistical analysis of trials, philosophy of wine styles, and the common evaluation methods used in sensory testing. Students must be 21 years of age or older, and this class has a materials fee above regular enrollment fee. 54 hours lecture. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: GR

VWT 29 INDEPENDENT STUDY, VITICULTURE AND WINERY TECHNOLOGY 0.5-2 UNITS

For course information, see "Independent Studies". 27-108 hours laboratory.

VWT 31 FALL VINEYARD OPERATIONS 3 UNITS

This class has a strong emphasis on the practical applications of viticulture. Students will be involved in the operation of the LPC Campus Hill Vineyard putting into action, viticultural practices for the fall and winter seasons including canopy management techniques, irrigation disciplines, pest and disease control, fruit contracts, maturity sampling, harvesting, pruning, erosion control via cover crop, fertilization, weed control, and vineyard development and establishment with a focus on sustainable vineyard management. Students under the age of 21 must have a declared major of either viticulture and/or enology to participate in any tasting activities as stated in the California State Assembly Bill 1989. Strongly Recommended: VWT 10 with a minimum grade of C. 36 hours

lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

VWT 32 SPRING VINEYARD OPERATIONS 3 UNITS

This class has a strong emphasis on the practical applications of viticulture. Students will be involved in the operation of the LPC Campus Hill Vineyard putting into action viticultural practices for the spring season including pruning, canopy management techniques, new vine planting and training, vine nutrition, weed control, irrigation system construction and maintenance, trellis construction and maintenance, vineyard equipment operation and maintenance, with a continued focus on sustainable vineyard management. Students under the age of 21 must have a declared major in either viticulture and/or enology to participate in any tasting activities as stated in the California State Assembly Bill 1989. Strongly Recommended: VWT 10 with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VWT 33 SUMMER VITICULTURE OPERATIONS 1 UNIT

This course covers vineyard practices for the summer session. The class will manage the Las Positas College Campus Hill vineyard, with an emphasis on the practical applications of viticulture theory including vine training, canopy management, assessment of insect and disease problems specific to the appellation, irrigation applications relating to soil and leaf moisture and crop estimation. Strongly Recommended: VWT 10 with a minimum grade of C. 9 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VWT 35 LANDSCAPE AND VINEYARD PEST AND DISEASE MANAGEMENT 3 UNITS

This course covers concepts of plant pathology, entomology, and weed science which are studied in order to identify symptoms, diagnose problems, and determine methods of controlling plant diseases, insects, and weed pests. Also included is the study of the identification and biology of common vineyard, landscape and other horticultural crop pests and diseases. Materials and instruction is provided for techniques and strategies for sampling, monitoring and effective control measures, pest management strategies for insects, weeds and diseases, including bio-control, sustainable agriculture practices and integrated pest management. In addition to pesticide use, safety and compliance, there is a focus on preparation for the California State Qualified Applicators license. Students that take HORT 53 may not receive credit for VWT 35. 45 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

VWT 41 FALL WINERY OPERATIONS 3 UNITS

This class has a strong emphasis on the practical applications of winery operations. Students will be involved in the grape processing of the annual LPC Campus Hill Vineyard harvest, putting into action winery operations for the fall season including the planning, managing and implementation of harvest, grape maturity monitoring, press pad equipment operation and safety, handling must and juices, alcoholic and malolactic fermentation disciplines,

sensory and laboratory analysis, handling and storage of new wines, maintenance of wines from previous vintages, winery sanitation, forklift safety and operation and general cellar practices. Students under the age of 21 must have a declared major of either viticulture and/or enology to participate in any tasting activities as stated in the California State Assembly Bill 1989. Strongly Recommended: VWT 20 with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VWT 42 WINERY OPERATIONS II 3 UNITS

This class has a strong emphasis on the practical applications of winery operations. Students will be involved in the on-going maintenance of wines produced from the annual LPC Campus Hill Vineyard harvest, putting into action winery operations for the spring season including winery equipment operation and safety, the handling and storage of new wines, barrel and tank monitoring, sensory and laboratory analysis, the planning, managing and implementation of bottling including blending trials, fining and filtering, label design and compliance, winery sanitation and record keeping. Students under the age of 21 must have a declared major in either viticulture and/or enology to participate in any tasting activities as stated in California State Assembly Bill 1989. Strongly Recommended: VWT 20 with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VWT 45 FOOD AND WINE PAIRING 2 UNITS

This course is an introduction to the art and science of food and wine pairing. Through lectures and formal tastings, students are instructed in the use of a sensory analysis model to identify components in food and wine that complement or contrast when initiating pairings. Students will participate in comprehensive palate exercises in which regional food preparations are paired with a broad spectrum of wines. Students under the age of 21 must have a declared major of either viticulture and/or enology to participate in any tasting activities as stated in the California State Assembly Bill 1989. 36 hours lecture. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

VWT 47 WINE REGIONS/WINES 3 UNITS
OF CALIF

Introduction to wines produced in California by region, including history, viticultural practices and winemaking styles. There is a strong emphasis on the sensory evaluation of representative California wines. There is a materials fee associated with this class. Students under the age of 21 must have a declared major of viticulture and/or enology to participate in any tasting activities as stated in the California State Assembly Bill 1989. 54 hours lecture. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

VWT 55 WINE SERVICE AND SALES 2 UNITS

This course will provide students with the information, skills, and abilities to provide high-quality wine service in restaurants, tasting rooms, wine bars, and/or catering events. Instruction will include

both the technical and social skills necessary to maximize the guest experience and to be a successful wine sales/service professional. Students under the age of 21 must have a declared major of either viticulture and/or enology to participate in any tasting activities as stated in the California State Assembly Bill 1989. 36 hours lecture. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WELDING TECHNOLOGY

Welding touches every aspect of our modern life from the shoes we wear to the food we eat. The Welder or Welding Technician is concerned with all of the activities related to the manufacturing, production, performance, and maintenance of welded products. Interest is primarily in the manufactured or fabricated product, including process selection, power sources, base and filler materials, manufacturing methods, hands-on skills training, inspection, quality control, performance evaluation, and equipment service. The broad range of welded products with which welders and welding technicians deal includes structures, such as bridges, buildings, utility equipment, wind turbines, and communication towers; pressure vessels and heat exchangers, such as nuclear systems, boilers, solar thermal systems, oil and natural gas exploration, chemical processing equipment, storage vessels, and transmission and distribution piping; transportation vehicles for water, land, air, and space travel; and production and processing machines of all types.

Completion of the certificate/AS degree requirements prepares students to take certification tests in a workplace environment. Students may begin this program any semester and enter with either Welding Technology 61 or Welding Technology 62 as the starting series, or may choose Welding Technology 70 or Welding Technology 71 as a means to explore the topic on a more superficial approach. This program is designed to teach theoretical concepts in one course and hands-on skills in a companion course. These companion courses must be taken concurrently. While units in the program are transferable to many institutions, students should consult a counselor for specific information.

For more information please see:
<http://www.laspositascollege.edu/weld/index.php>

Programs of Study

Degrees:

- AS – Welding Technology

Certificates of Achievement:

- Welding Technology

Career Opportunities

Students will find many career opportunities open to them, such as Welder, Welding Technician, Fabricator, Certified Welding Inspector, Pipewelder, Ironworker, Boilermaker, Steamfitter, Sheet Metal, as well as Maintenance and Repair occupations.

AS – Welding Technology

About the Degree

The Associate of Science in Welding Technology prepares students for the welding and manufacturing industry. Welding touches every

aspect of our modern life from the shoes we wear to the food we eat. The Welder or Welding Technician is concerned with all of the activities related to the manufacturing, production, performance, and maintenance of welded products. Interest is primarily in the manufactured or fabricated product, including process selection, power sources, base and filler materials, manufacturing methods, hands-on skills training, inspection, quality control, performance evaluation, and equipment service. The broad range of welded products with which welders and welding technicians deal includes structures, such as bridges, buildings, utility equipment, wind turbines, and communication towers; pressure vessels and heat exchangers, such as nuclear systems, boilers, solar thermal systems, oil and natural gas exploration, chemical processing equipment, storage vessels, and transmission and distribution piping; transportation vehicles for water, land, air, and space travel; and production and processing machines of all types.

Career Opportunities

The welding industry offers a wide variety of dynamic and challenging careers. Underwater welders are needed on offshore oil rigs. Welder-operators use automated welding systems to manufacture cars. Structural welders help to construct skyscrapers and bridges. In addition to welders, other professionals such as certified inspectors and engineers rely on welding to do their jobs. Without these professionals, our country would fall apart. The demand for skilled welding professionals is constantly growing. By 2025, our nation's workforce will need over 400,000 welders to satisfy the demands of several industries.

Program Outcomes

- Upon completion of the AS in Welding Technology, students are able to operate safely in a welding workplace environment.
- Upon completion of the AS in Welding Technology, students have skills necessary to pass an American Welding Society standard welding certification test.

Required Core: (25 Units)

WLDT 55 (Print Reading for Industry).....	2
WLDT 61A (Beginning SMAW and FCAW Theory)	1
WLDT 61AL (Beginning SMAW and FCAW Skills Lab)	2
WLDT 61B (Advanced SMAW and FCAW Theory)	1
WLDT 61BL (Advanced SMAW and FCAW Skills Lab).....	2
WLDT 62A (Beginning GTAW and GMAW Theory)	1
WLDT 62AL (Beginning GTAW and GMAW Skills Lab)	2
WLDT 62B (Advanced GTAW and GMAW Theory)	1
WLDT 62BL (Advanced GTAW and GMAW Skills Lab).....	2
WLDT 63 (Welding Layout and Fitting).....	2
WLDT 66 (Welding Inspection and Testing).....	2
WLDT 69A (Beginning Pipe Welding).....	3
WLDT 69B (Advanced Pipe Welding)	3
WLDT 73 (Welding Workplace Safety).....	1

List A: Select from Below (12 Units)

WLDT 1 (Welding Camp).....	1
WLDT 67A (Welding Skills Lab).....	2
WLDT 67B (Advanced Welding Skills Lab)	2
WLDT 68 (Certification Preparation)	2
WLDT 70 (Introduction to Welding).....	2

WLDT 72A (Beginning Laser Welding)	2
WLDT 72B (Intermediate Laser Welding)	3
WLDT 72C (Advanced Laser Welding).....	2
WLDT 80 (The Welding Business)	2

List B: Select from Below (7 Units)

MATH 50 (Intermediate Algebra for SLAM)	4
MATH 53A (Technical Intermediate Algebra for Welding A)	2
MATH 53B (Technical Intermediate Algebra for Welding B)	1
MATH 72A (Technical Elementary Algebra A).....	1
MATH 72B (Technical Elementary Algebra B)	1
MATH 72C (Technical Elementary Algebra C)	1
MATH 72D (Technical Elementary Algebra D).....	1

Program-Based GE[^]: Select One (3 Units)

ASL 1A (American Sign Language I)	3
BUSN 48 (Human Relations in Organizations).....	3
BUSN 52 (Business Communications).....	3
CIS 50 (Intro to Computing Info Tech).....	3
GDDM 3 (The History of Modern Design)	3
WLDT 71 (Welding for the Arts)	3

Total Units for the Major 44

[^]Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

**Certificate of Achievement
Welding Technology**

About the Certificate

The Certificate of Achievement in Welding Technology is designed to prepare students for entry level employment in a manufacturing environment. Key outcomes of the certificate include operating safely while performing the welding skills necessary to pass standard industry tests. Students will also learn to use auxiliary equipment, processes and materials. Completion of the certificate will provide the student a strong knowledge foundation to utilize and apply common welding processes.

Career Opportunities

The welding industry offers a wide variety of dynamic and challenging careers. Underwater welders are needed on offshore oil

rigs. Welder-operators use automated welding systems to manufacture cars. Structural welders help to construct skyscrapers and bridges. In addition to welders, other professionals such as certified inspectors and engineers rely on welding to do their jobs. Without these professionals, our country would fall apart. The demand for skilled welding professionals is constantly growing. By 2025, our nation's workforce will need over 400,000 welders to satisfy the demands of several industries.

Program Outcomes

- Upon completion of the Certificate of Achievement in Welding Technology, students are able to operate safely in a welding workplace environment.
- Upon completion of the Certificate of Achievement in Welding Technology, students have skills necessary to pass an American Welding Society standard welding certification test.

Required Core: (7 Units)

WLDT 55 (Print Reading for Industry).....	2
WLDT 63 (Welding Layout and Fitting).....	2
WLDT 66 (Welding Inspection and Testing).....	2
WLDT 73 (Welding Workplace Safety).....	1

List A: Select from Below (15 Units)

WLDT 1 (Welding Camp).....	1
WLDT 61A (Beginning SMAW and FCAW Theory)	1
WLDT 61AL (Beginning SMAW and FCAW Skills Lab)	2
WLDT 61B (Advanced SMAW and FCAW Theory)	1
WLDT 61BL (Advanced SMAW and FCAW Skills Lab).....	2
WLDT 62A (Beginning GTAW and GMAW Theory)	1
WLDT 62AL (Beginning GTAW and GMAW Skills Lab)	2
WLDT 62B (Advanced GTAW and GMAW Theory)	1
WLDT 62BL (Advanced GTAW and GMAW Skills Lab).....	2
WLDT 67A (Welding Skills Lab).....	2
WLDT 67B (Advanced Welding Skills Lab)	2
WLDT 68 (Certification Preparation)	2
WLDT 70 (Introduction to Welding).....	2
WLDT 72A (Beginning Laser Welding).....	2
WLDT 72B (Intermediate Laser Welding)	3
WLDT 72C (Advanced Laser Welding).....	2
WLDT 80 (The Welding Business)	2

List B: Select One Area (4 Units)

Area 1

MATH 72A (Technical Elementary Algebra A).....	1
MATH 72C (Technical Elementary Algebra C)	1
MATH 53A (Technical Intermediate Algebra for Welding A)	2

Area 2

MATH 39 (Trigonometry).....	4
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Total Units 26

**Welding Technology Courses
(WLDT)**

WLDT 1 WELDING CAMP 1 UNIT

This course is designed to introduce the basics of shop safety, hand tools and welding. Fabrication of simple metal projects. Emphasis on practical uses and applications. 9 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

WLDT 10 MACHINING FOR THE METAL TRADES 4 UNITS

This course is intended to show how machine tools are used in the metal trades and manufacturing, as well as how machine tools operate and when to use one particular machine instead of another. The advantage and disadvantage of various machining techniques as well as their application in the fabrication process are explored. Students will learn the use of drawings, hand tools, precision measuring tools, drilling machines, grinders, lathes, milling machines, and other specialized tools used to shape and finish metal and nonmetal parts. Additive and subtractive manufacturing techniques as well as related processes are explored. 36 hours lecture, 108 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WLDT 55 PRINT READING FOR INDUSTRY 2 UNITS

Interpreting and visualizing drawings and prints used in industrial settings. The role of prints in the digital age, geometric dimensioning and tolerancing to current standards. Foundational skills needed for print reading success, including basic mathematics, geometry principles, measurement tools, and the design process. Welding symbols and their use in manufacturing. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

WLDT 61A BEGINNING SMAW AND FCAW THEORY 1 UNIT

Theory and safety of Shielded Metal Arc (SMAW) Flux-Core Arc (FCAW) welding of steel, flame cutting, plasma and carbon arc cutting. American Welding Society nomenclature, electrode and wire selection, job opportunities. Blueprint reading, welding symbols for welders and hazardous material regulation. Corequisite: WLDT 61AL or WLDT 61BL. 18 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 61AL BEGINNING SMAW AND FCAW SKILLS LAB 2 UNITS

Skills of Shielded Metal Arc (SMAW) and Flux-Core Arc (FCAW) welding in the flat and horizontal positions to American Welding Society code specifications. Oxy-fuel flame, plasma, and carbon arc cutting. Safe use and handling of welding equipment and consumables. Corequisite: WLDT 61A or WLDT 61B. 108 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WLDT 61B ADVANCED SMAW AND 1 UNIT

FCAW THEORY

Theory and safety of Stick (SMAW) and Flux-core Arc (FCAW) welding of steel, flame cutting, plasma and carbon arc cutting. American Welding Society nomenclature, electrode and wire selection, job opportunities. Blueprint reading, welding symbols for welders and hazardous material regulations. Corequisite: WLDT 61AL or WLDT 61BL. 18 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 61BL ADVANCED SMAW AND FCAW SKILLS LAB 2 UNITS

Advanced skills in Shielded Metal Arc (SMAW) and Flux Cored Arc (FCAW) welding of steel in the horizontal, vertical and overhead positions to A.W.S. Codes. Safety and proper use of SMAW, FCAW, oxy-fuel cutting and plasma arc cutting equipment. Blueprint usage in the welding shop environment. Prerequisite: WLDT 61AL with a minimum grade of C. Corequisite: WLDT 61A or WLDT 61B. 108 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WLDT 62A BEGINNING GTAW AND GMAW THEORY 1 UNIT

Theory of fuel and inert gas welding of steel, stainless steel and aluminum alloys, Oxy-Fuel welding, Oxy fuel brazing, flame cutting, and plasma cutting. Gas Tungsten Arc (GTAW) and Gas Metal Arc (GMAW) and welding equipment supplies. Nomenclature and metallurgy of steel, stainless steel and aluminum alloys. Introduction to blueprint reading and welding symbols. Hazardous material regulations and safety data sheets. Corequisite: WLDT 62AL or WLDT 62BL. 18 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 62AL BEGINNING GTAW AND GMAW SKILLS LAB 2 UNITS

Skills of TIG (GTAW) and MIG (GMAW) welding of ferrous and non-ferrous alloys in the flat and horizontal positions to A.W.S. codes. Safety and proper use of TIG and MIG equipment, oxy-fuel welding and cutting, plasma cutting. Blueprint usage in welding shop environment. Corequisite: WLDT 62A or WLDT 62B. 108 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WLDT 62B ADVANCED GTAW AND GMAW THEORY 1 UNIT

Theory of fuel and inert gas welding of Non-Ferrous alloys, Oxy-Fuel welding, Oxy fuel brazing, flame cutting, and plasma cutting. Gas Tungsten Arc (GTAW) and Gas Metal Arc (GMAW) and welding equipment supplies. Nomenclature and metallurgy of Non-Ferrous alloys. Introduction to blueprint reading and welding symbols. Hazardous material regulations and safety data sheets. Corequisite: WLDT 62AL or WLDT 62BL. 18 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 62BL ADVANCED GTAW AND 2 UNITS

GMAW SKILLS LAB

Advanced skills in Gas Tungsten Arc (GTAW) and Gas Metal Arc (GMAW) welding of ferrous and non-ferrous alloys in the horizontal, vertical and overhead positions to A.W. S. codes. Safety and proper use of TIG and MIG equipment, oxy-fuel welding and cutting, plasma cutting. Blueprint usage in welding shop environment. Pipe and tubing fit-up and welding. Prerequisite: WLDT 62AL with a minimum grade of C. Corequisite: WLDT 62A or WLDT 62B. 108 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WLDT 63 WELDING LAYOUT AND FITTING 2 UNITS

Interpretation of welding blueprints by making welding layouts and weldment fitups. Current methods, practices, and recommended procedures. Use of jigs, fixtures, holding devices, and welding sequences. Methods of straightening and restoring dimensions to finished product. Laboratory includes SMAW, GMAW, GTAW, and FCAW welding, plasma and oxy-fuel cutting. Strongly Recommended: WLDT 61BL with a minimum grade of C or WLDT 62BL with a minimum grade of C. 18 hours lecture, 54 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WLDT 66 WELDING INSPECTION AND TESTING 2 UNITS

Theory and skills in performing inspections and tests using destructive and nondestructive methods. American Welding Society (AWS) codes and their role in welding inspection. The role and duties of the Certified Welding Inspector (CWI). Strongly Recommended: WLDT 61AL with a minimum grade of C or WLDT 62AL with a minimum grade of C. 18 hours lecture, 54 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WLDT 67A WELDING SKILLS LAB 2 UNITS

Development and improvement of skills in Shielded Metal Arc (SMAW), Flux Cored Arc (FCAW), Gas Metal Arc (GMAW), and Gas Tungsten Arc (GTAW) welding. Strongly Recommended: WLDT 61AL with a minimum grade of C or WLDT 62AL with a minimum grade of C or WLDT 70 with a minimum grade of C or WLDT 71 with a minimum grade of C. 108 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WLDT 67B ADVANCED WELDING SKILLS LAB 2 UNITS

Advanced development and improvement of skills in Shielded Metal Arc (SMAW), Flux Cored Arc (FCAW), Gas Metal Arc (GMAW), and Gas Tungsten Arc (GTAW) welding. Strongly Recommended: WLDT 67A with a minimum grade of C. 108 hours laboratory.

Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WLDT 68 CERTIFICATION PREPARATION 2 UNITS

Welding skills preparation for certification testing. Theory of American Welding Society D1.1, American Society of Mechanical Engineers Section IX and American Petroleum Institute 1104. Strongly Recommended: WLDT 61AL with a minimum grade of C or WLDT 61BL with a minimum grade of C or WLDT 62AL with a minimum grade of C or WLDT 62BL with a minimum grade of C or WLDT 69A with a minimum grade of C or WLDT 69B with a minimum grade of C. 108 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WLDT 69A BEGINNING PIPE WELDING 3 UNITS

Theory and practical application of: pipe joint preparation and design, API (American Petroleum Institute) and AWS (American Welding Society) welding codes specification for pipe and pipe fittings, analysis of joint configuration, plasma and flame cutting of pipes, wire and electrodes selections, beginning of pipe welding blue print and welding symbols, SMAW, GMAW, FCAW and GTAW of pipe joints, non-destructive and destructive test and qualitative concepts of evaluation. Welding in the 1G and 2G positions. Prerequisite: WLDT 61BL with a minimum grade of C or WLDT 62BL with a minimum grade of C. 18 hours lecture, 108 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WLDT 69B ADVANCED PIPE WELDING 3 UNITS

Theory and practical application of: pipe joint preparation and design, API (American Petroleum Institute) and AWS (American Welding Society) welding codes specification for pipe and pipe fittings, analysis of joint configuration, plasma and flame cutting of pipes, wire and electrodes selections, beginning of pipe welding blue print and welding symbols, SMAW, GMAW, FCAW and GTAW of pipe joints, non-destructive and destructive test and qualitative concepts of evaluation. Welding in the 5G and 6G positions. Prerequisite: WLDT 69A with a minimum grade of C. 18 hours lecture, 108 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WLDT 70 INTRODUCTION TO WELDING 2 UNITS

Basic skills in Shielded Metal Arc (SMAW), Gas Tungsten Arc (GTAW), Gas Metal Arc (GMAW) and Flux Core Arc (FCAW) welding. Oxy-fuel welding and thermal cutting. Emphasis on safety, proper usage, theory and care of welding equipment. 18 hours lecture, 54 hours laboratory. Transfer: CSU.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WLDT 71 WELDING FOR THE ARTS 3 UNITS

Provides basic welding, shop skills and instruction that artistically inclined individuals should know in order to be effective in the process of creating metal art and sculpture. Provides instruction on types of metals (aluminum, iron, steel, cast iron, bronze, stainless steel, etc.), mechanical fastenings, cutting and permanent joining together of metals and alloys through welding processes such as SMAW, GMAW, GTAW, FCAW, oxyacetylene and braze welding, plasma and fuel gas cutting. Instruction includes general shop safety, equipment use, finishing, welding electricity fundamentals, welding consumable identification, and hazardous materials regulation. 18 hours lecture, 108 hours laboratory. AA/AS GE: III. Transfer: CSU; CSU GE: C1.

Course Material Fees May Apply

Degree Applicable, Credit Grading Option: OP

WLDT 72A BEGINNING LASER WELDING 2 UNITS

This course will cover the theory and concepts associated with modern laser welding of metals and materials. The use of the laser in the manufacturing environment will be shown along with typical applications. The different types of lasers available for welding. The advantages and disadvantages of continuous power laser welding and pulsed laser welding. Strongly Recommended: MATH 71 with a minimum grade of C or MATH 71A with a minimum grade of C and/or MATH 71B with a minimum grade of C. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 72B INTERMEDIATE LASER WELDING 3 UNITS

This course will cover the theory and applied skills associated with modern laser welding of metals and materials. Hands-on use of the laser welding equipment will be shown along with typical applications. The different types of joint configurations for welding will be covered. The tools for measuring and monitoring laser welding performance will be explored. Methods of inspection, as well as defect detection, their cause and corrective action will be discussed. Practical application of codes and specifications for industrial laser welding applications will be reviewed. Laser welding safety requirements and personal protective equipment. Prerequisite: WLDT 72A with a minimum grade of C (may be taken concurrently). 18 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 72C ADVANCED LASER WELDING 2 UNITS

This course will cover the application of modern laser welding of metals and materials. The hands-on use of the laser in the manufacturing environment will be performed. Utilization of tools for monitoring their performance will be explored. The safe and proper use continuous power laser welding and pulsed laser welding as well as the equipment and supplies will be covered. Direct measurement of temporal and spatial characteristics of the laser beam will be performed. Welding as well as metallurgy and joint configurations will be employed. Inspection, as well as defect detection, as well as their cause and corrective action will be demonstrated. Utilization of codes and specifications for industrial laser welding applications will be applied as well as welding safety

requirements and personal protective equipment. Calculation of laser beam welding parameters. Prerequisite: WLDT 72B with a minimum grade of C. 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 73 WELDING WORKPLACE SAFETY1 UNIT

This course provides the safety knowledge required to operate safely in a welding or construction workplace environment. This course will emphasize hazard identification, avoidance and control as a means to proactively create a safe workplace environment. OSHA safety standards will be emphasized throughout to maintain consistency with workplace environment. This course meets the 10 hour OSHA construction safety training requirements. 18 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 79 MANUFACTURING PROCESSES2 UNITS

This course examines the processes and equipment used in modern manufacturing. This course provides an excellent introduction to today's manufacturing processes, as well as an overview of the processes and equipment used in modern manufacturing. The course concentrates on the five major types of industrial materials; metals, plastics, ceramics, woods, and composites. It provides thorough coverage of the forming, separating, fabricating, conditioning, and finishing processes related to each material. The course also includes the materials and manufacturing processes used in packaging finished goods. The proper and safe use of hand tools, basic shop tools, manufacturing and welding equipment will be covered. Understanding the relationship between manufacturing processes, materials properties, materials processing and design. 27 hours lecture, 27 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 80 THE WELDING BUSINESS 2 UNITS

This course explores the combination of materials, labor and machines. This course examines the unique aspects associated with the operation of a successful welding business. This course provides a basic understanding of the flow of work through a welding operation from the initial customer contact through the completed component arriving at the customers receiving facility. The request for quotation, the processes of bidding on work, estimating, quotations, contract documents, codes, specifications, customer requirements, manufacturing travelers, quality control, manufacturing methods, labor, raw material sources, subcontractors, finishing, transportation, materials handling, packaging, and the process for getting paid for doing the work. Strongly Recommended: WLDT 61AL with a minimum grade of C or WLDT 62AL with a minimum grade of C. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WOMEN'S STUDIES

Women's Studies courses are designed to help students comprehend the forces that shape the lives of women in United States and in countries around the world. They examine the movement for equal rights globally. The Women's Studies courses are transferable and students are encouraged to develop critical thinking skills and to learn to write and communicate clearly. Both skills will enable students to be successful in their chosen career fields. The discipline of Women's Studies helps to nurture an informed public and is, therefore, of vital importance to higher education.

Women's Studies Courses (WMST)

WMST 1 INTRODUCTION TO WOMEN'S STUDIES 3 UNITS

Examines the cultural, historical, social, political and economic experiences of women in the United States. Introduces feminist perspectives on a wide range of issues affecting women incorporating race, class, ethnicity, sexual orientation and the life cycle. Analysis of African American women, Asian American women, Chicanas, European American women and Middle Eastern American women. 54 hours lecture. AA/AS GE: IV, AC. Transfer: CSU, UC; CSU GE: D4, D7; IGETC: 4D, 4G; C-ID# SJS 120.

Degree Applicable, Credit Grading Option: OP

WMST 2 GLOBAL PERSPECTIVE OF WOMEN 3 UNITS

Examines the cultural, historical, political, and economic experiences of women globally. Introduces feminist perspectives on a wide range of issue affecting women including globalization, war, education, work, family, and religion in Asia, Africa, the Middle East, and Latin America. 54 hours lecture. AA/AS GE: IV. Transfer: CSU, UC; CSU GE: D4, D7; IGETC: 4D, 4G; C-ID# SJS 120.

Degree Applicable, Credit Grading Option: OP

WORK EXPERIENCE

The Work Experience courses support the educational benefits of work and give students the opportunity to earn college credit while working in supervised employment. Students work in part-time or full-time, paid or unpaid positions and they contract, in collaboration with their work supervisor and instructor, to achieve learning objectives. There are two types of Work Experience courses: General Work Experience, for students working in any type of job, and Occupational Work Experience/Internship, for students working in a job related to their academic and career goals. Students must already have employment to enroll in courses.

For more information about the Work Experience courses, please visit <http://laspositascollege.edu/workexperience/>. Students can search for employment on the Las Positas College Internship and Job Board at <http://laspositascollege.edu/internship-job-board/>. Employers are invited to post positions on the board, which is a free service. Work Experience courses are part of the college's Work-Based Learning Program: <http://www.laspositascollege.edu/careercenter/work-based.php>.

Work Experience Courses (WRKX)

WRKX 94 OCCUPATIONAL WORK EXPERIENCE/INTERNSHIP 1-8 UNITS

This course of supervised employment provides students with the opportunity to earn college credit for developing marketable skills while working in their major field of study. Students working in a part-time or full-time, paid or unpaid internship or position related to their major field of study will contract, in collaboration with their work supervisor and instructor, to set measurable, achievable goals; accomplish new or expanded learning objectives; and broaden work skills and experiences. Students will apply discipline-specific knowledge, skills, and abilities gained in the classroom. Students can earn 1 to 8 units per semester for a maximum of 16 units of Cooperative Work Experience, which includes General Work Experience and Occupational Work Experience/Internship. Students must work 75 paid hours or 60 unpaid hours per unit earned during the semester. Transfer: CSU. May be taken any number of times for a maximum of 16 units of Cooperative Work Experience.

Degree Applicable, Credit Grading Option: OP

WRKX 95 GENERAL WORK EXPERIENCE 1-6 UNITS

This course of supervised employment provides students with the opportunity to earn college credit while working and developing desirable work habits, attitudes, and skills. Students working in any part-time or full-time, paid or unpaid position will contract, in collaboration with their work supervisor and instructor, to set measurable, achievable goals; accomplish new or expanded learning

objectives; and broaden work skills and experiences. The work experience need not be related to the students' educational goals. Students can earn 1 to 6 units per semester for a maximum of 16 units of Cooperative Work Experience, which includes General Work Experience and Occupational Work Experience/Internship. Students must work 75 paid hours or 60 unpaid hours per unit earned during the semester. Transfer: CSU. May be taken any number of times for a maximum of 16 units of Cooperative Work Experience.

Degree Applicable, Credit Grading Option: OP

Administrators

Erik O. Bell (2015)	<i>Dean of Academic Services (PATH)</i> BS, California State University, East Bay; MS, Golden Gate University; Accounting
Kenneth G. Cooper (2015)	<i>Executive Director, Las Positas College Foundation</i> BA, University of California at Davis; African American & African Studies
Elizabeth David (2018)	<i>Dean of Students Services</i> BA, San Jose State University; MA, San Jose State University
Dyrell W. Foster (2020)	<i>President</i> BS, University of California, Davis, Applied Behavioral Science; MS, California State University, Long Beach, Counseling; Ed.D. University of Southern California, Education Administration
Stephen Gunderson (2000)	<i>Manager, College Technology Services</i> AA, Las Positas College; AS, Las Positas College; BS, Capella University
Nan Ho (1995)	<i>Dean of Academic Services (STEM)</i> BS, Biological Sciences, Stanford University; MS, Biological Sciences, Stanford University
Angela Lopez (2018)	<i>Director, Child Development Center</i> BA, Saint Mary's College, Psychology/Early Childhood Education; MA, JFK University, Consulting Psychology
Amy W. Mattern (2019)	<i>Dean of Academic Services (A & H)</i> BA, University of California, Davis, American Studies and Psychology; MA, California State University, Fullerton, American Studies
Stuart J. McElderry (2000)	<i>Dean of Academic Services (BSSL)</i> BA, University of California, Berkeley; MA, San Francisco State University; PhD, University of Oregon; History
Chad J. McMullen (2018)	<i>Public Safety Programs Manager</i> AA, West Hills College, Administration of Justice; AA, West Hills College, Social Science; BS, Kaplan University, Criminal Justice; MPA, Kaplan University
Anette Raichbart (2020)	<i>Vice President of Administrative Services</i> BA, University of California, Davis; MA, National University; MA, San Jose State University.

Rajinder S. Samra (2011)	<i>Director of Research, Planning, and Institutional Effectiveness</i> BA, University of California, Santa Cruz; MS, San Jose State University, Industrial/Organizational Psychology
Vicki Shipman (2010)	<i>Project Manager, Career Technical Education</i> BS, University of California at Davis, Environmental Economics; MBA, National University, Business
Shawn D. Taylor (2019)	<i>Director, Student Equity and Success</i> BA, John F. Kennedy University, Philosophy and Religion; MA, San Francisco State University. Digital Humanities; Mental Health Rehabilitation Specialist (MHRS), State of California.
Emerald W. Templeton (2020)	<i>Manager, Educational Partnerships</i> AA, Speech Communications & Liberal Arts, Ohlone College; MS, Counseling, San Francisco State University; EdD, Organization and Leadership, University of San Francisco
Tamica S. Ward (2018)	<i>Dean of Enrollment Services</i> BS, University of San Francisco, Finance; MBA, University of Phoenix, Business Administration
Kristina L. Whalen (2019)	<i>Vice President of Academic Services</i> BS, Missouri State University; MS, Florida State University; PhD, Florida State University; Speech Communication

Faculty

Angela L. Amaya (2008)	BA, College of St. Benedict; MLIS, San Jose State University; Librarian
Michael A. Ansell (2002)	BS, California State University, Chico; MS, University of Oregon; PhD, University of Oregon; Chemistry
Robert H. August, Jr. (2001)	BS, Armstrong Atlantic State University; MS, Western Kentucky University; Mathematics; MFA, University of California, Davis; Acting
TeriAnn Bengiveno (2001)	BA, San Jose State University; MA, San Jose State University; PhD, University of Hawaii; History
R. Toby Bielawski (1999)	BA, Smith College; MA, Mills College; English
Howard L. Blumenfeld (2008)	BA, University of California, San Diego; MA, San Diego State University; Mathematics
Segal M. Boaz (2016)	BS, University of California, San Diego; MS, Sonoma State University; Biology

Jeremiah H. Bodnar (2007)	AA, Saddleback College; BA, University of California, Los Angeles; MA, University of Chicago; Philosophy	James L. Dobson (2001)	AA, College of DuPage, Illinois; BS, Northern Arizona University; MA, California State University, Chico; Speech
Ian J. Brekke (2015)	BA, California State University, Sacramento; MA, California State University, Long Beach; Music	Richard J. Dry (1999)	BA, University of California, Berkeley; MA, San Francisco State University; English
Jonathan D. Brickman (2006)	BA, University of Wisconsin; MA, San Francisco State University; English as a Second Language	Christopher G. Dudzik (2019)	Archeological Technology Certificate, Cabrillo College; AA, Gavilan College; BS, University of California, Santa Cruz; PhD, University of California, Santa Cruz; Chemistry
Angelo Bummer (2015)	BA, Evergreen State College; MA, San Francisco State University; English	Catherine M. Eagan (2003)	BA, University of California, Berkeley; PhD, Boston College; English
Kimberly M. Burks (2016)	BS, San Francisco State University; MA, Saint Mary's College; Counseling	David R. Everett (2005)	VWT Coordinator; Viticulture and Winery Technology
Jose D. Calderon (2016)	AA, Evergreen Valley College; BA, San Jose State University; MA, California State University, San Jose; Counselor, Veterans First Program	Lisa R. Everett (2000)	BS, University of California, San Diego; MS, San Francisco State University; Ed. D., San Francisco State University; Health
Jill E. Carbone (2006)	BA, University of California, Santa Cruz; MS, University of California, Davis; Biology	Debbie J. Fields (1990)	AA, Penn State University; BS, Virginia Commonwealth University; MBA, Golden Gate University; Computer Information Systems
Amanda L. Castelli (2020)	AA, Las Positas College; BA, University of California, Davis; MA, Santa Clara University, Counseling Psychology	Carrie Jean Frates (2018)	BS, California State University, East Bay; MS, California State University, East Bay; Mathematics
Rajeev Chopra (2008)	BCOM, Guru Nanak Dev University, India; MCOM, Kurukshetra University, India; MS, California State University, Hayward; Business	Joel M. Gagnon (2011)	BA, University of California, Santa Barbara; MA, St. Mary's College of California; Counseling
Daniel G. Cearley (2017)	BA, San Jose State University; MA, San Francisco State University; Anthropology	Lyndale T. Garner (2017)	BA, California State University, Sacramento; MA, California State University, Sacramento; Early Childhood Education
Elena C. Cole (1997)	AA, Ohlone College; BA, University of California, Berkeley; MA, San Francisco State University; English	Justin C. Garoupa (2006)	BA, University of California, Davis; MFA, University of Alaska; English
Dr. Tracey Coleman (2018)	BS, University of LaVerne; MS, University of LaVerne; DM, University of Phoenix; Business	Heike Gecox (2011)	AA, Las Positas College; BA, California State University, Hayward; MS, California State University, Hayward; Counseling
Jason B. Craighead (2009)	AA, Santa Rosa Junior College; BS, University of California, Santa Barbara; MSS, United States Sports Academy; Physical Education/Swimming Coach	James Giacomazzi (2015)	BS, University of California, Riverside; MA, California State University, San Jose; Kinesiology
Andrew C. Cumbo (2016)	BA, SUNY Plattsburgh; MS, Humboldt State University; Kinesiology	Michelle C. Gonzales (2005)	BA, Mills College; MFA, Mills College; English
Susan Cumbo (2018)	BS, Humboldt State University; MS, Humboldt State University; Kinesiology	Jennie Graham (2013)	B.S. University of California, Davis; MS, California State University, East Bay; Mathematics
Moh Daoud (2002)	AS, College of San Mateo; BS, Ecole Nationale D'Electronique, Paris; Computer Information Systems	Richard H. Grow (2006)	BS, California State University, Hayward; MS, California State University, San Francisco; PhD, University of California, Riverside; Chemistry
Gabriela I. Discua (2014)	BA, California State University, Hayward; MS, San Francisco State University; Counseling		

Brian J. Hagopian (2005)	AS, Fresno City College; Automotive Technology; BA, Ashford University; Organizational Management; CA Smog Instructor; ASE Master; GM World Class; Isuzu Master Elite	William J. Komanetsky (2015)	BS, Washington University; MS, California State University, Chico; Computer Science
Ruth L. Hanna (1991)	AA, Hartnell Community College; BS, University of California, Davis; MS, University of California, Davis; Geology	Melissa A. Korber (1999)	BA, Montana State University; JD, University of Pacific McGeorge School of Law; MA, San Francisco State University; English (Creative Writing); English/Mass Communications
Eric W. Harpell (1988)	BA, University of California, San Diego; MS, University of California, Los Angeles; Physics	Peter Kuo (2015)	BFA, University of California, San Diego; Graphic Arts
L.W. Hasten (2004)	BA, Brooklyn College; MA, Columbia University; Anthropology	Craig A. Kutil (2006)	BA, Humboldt State University (Liberal Studies); BA, Humboldt State University (Mathematics); MS, Humboldt State University; Mathematics; Sensei; Articulation Officer
Timothy D. Heisler (1995)	AA, Chabot College, Hayward; BA, California State University, Hayward; MA, California State University, Hayward; Speech	Mary Lauffer (2017)	BA, Miami University; MA, University of New Mexico; Business
Ann Hight (2013)	BA, University of California, San Diego; MA, San Jose State University; PhD, University of California, Davis; Physiology	Christina H. Lee (2006)	BA, University of California, Berkeley; MS, San Francisco State University; Counselor
Akihiko Hirose (2015)	BA, University of Colorado; MA, University of Colorado; PhD, University of California, Riverside; Sociology	Keith B. Level (2007)	BS, Stanford University; MS, Stanford University; Engineering
Deanna A. Horvath (2009)	BA, California State University, East Bay; Photography	Marina M. Lira (2011)	AS, Santa Rosa Junior College; BA, Sonoma State University; MSW, University of California, Berkeley; Counseling
Jared N. Howard (2016)	AA, Chabot College; BA, University of California, Berkeley; MA, California State University, San Jose; Counseling	Titian Lish (2013)	BA, San Francisco State University; MA, San Francisco State University; Theater Arts
Frances M. Hui (2000)	BA, San Diego State University; MLS, University of California, Los Angeles; Librarian	Ruchira Majumdar (2008)	BS, University of Calcutta; MS, University of Calcutta; PhD, Iowa State University; Mathematics
Tina E. Inzerilla, Ph.D. (2007)	AA, Chabot College; BS, California State University, Hayward; MLIS, San Jose State University; PhD, Queensland University of Technology; Librarian	Daniel F. Marschak (2015)	BA, University of California, Los Angeles; MA, University of California, Los Angeles
Joanna Tice Jen (2018)	BA, Wesleyan University; M. Phil, City University of New York; Ph.D., City University of New York; Political Science	Julia I. McGurk (2014)	BA, California Polytechnic State University, San Luis Obispo; MA, California State University, Hayward; English as a Second Language
Russell A. Jensen (2019)	BS, California State University, San Francisco; MS, California State University, San Francisco; PhD, Massachusetts Institute of Technology; Chemistry	Ashley D. McHale (2008)	BS, Elon University; MS, Texas Tech University; Mathematics
Irena Keller (2018)	BA, Haifa University; MA, Haifa University; PhD, University of California, Berkeley; Psychology	Michael A. McQuiston (2018)	BA, Saint Mary's College of California; MAS, University of California, Irvine; Administration of Justice
Natalie A. Kellner (2018)	BA, California State University, Long Beach; MA, California State University, Chico; Communication Studies	Scott A. Miner (2006)	AA, Chabot College-Valley Campus; BS, California Polytechnic State University; Materials Engineering
John M. Kelly (2019)	BS, Northwestern University; Theater	Carlos I. Moreno (2019)	BS, California State University, Fresno; MS, California State University, Fresno; Computer Science
		Jason M. Morris (2001)	BA, University of Texas; MA, University of New Mexico; Mathematics

Dana Nakase (2018)	BS, University of California, Santa Barbara; MS, Arizona State University; Biology	Robin E. Roy (2008)	BA, Connecticut College; MS, Old Dominion University; PhD, University of Vermont; Psychology
Martin J. Nash (2009)	BA, Kansas State University; MFA, California College of the Arts; English	John D. Ruys (2006)	BS, University of California, Davis; MS, University of California, Davis; PhD, University of California, Davis; Psychology
Maureen P. O’Herin (2003)	BA, St. Mary’s College; MA, San Francisco State University; English	Paul Sapsford (2014)	B.Sc., University of Surrey; PGCE Physical Education, University of Exeter; MA, Saint Mary’s College; Kinesiology
Alain Olavarrieta (2018)	BA, University of California, Los Angeles; MS, California State University, Northridge; Mathematics	Michael R. Sato (2002)	BA, University of California, Santa Cruz; MA, California State University, Sacramento; English
Jill R. Oliveira (2014)	BA, California State University, Chico; MS, California State University, Hayward; Counselor	Michael J. Schwarz (2006)	AA, Santa Rosa Junior College; AB, University of California, Davis; MA, University of San Diego; Ph.D., Indiana University; Counselor
Thomas M. Orf (2005)	BA, University of Northern Colorado; MS, University of Northern Colorado; PhD, University of Kentucky; Geography	Michal I. Shuldman (2015)	BA, Vassar College; MA, University of California, Davis; PhD, University of California, Berkeley; Biology
Jim Ott (2013)	AA, West Valley College; BA, San Jose State; MA, San Jose State University; EdD, St. Mary’s College of California; English	German Sierra (2018)	AS, Foothill College; Fire Technology
Elizabeth Owens (2015)	AS, College of the Sequoias; BS, California Polytechnic State University, San Luis Obispo; MS, University of California, Merced; Mathematics	Bhairav Singh (2015)	BA, Princeton University; Ph.D., Massachusetts Institute of Technology; Mathematics
Leslie L. Payne (2018)	BA, University of California, Davis; MA, California State University, East Bay; English as a Second Language	Karin S. Spirn (2005)	BA, University of California, Berkeley; MA, University of Michigan; PhD, University of Michigan; English
Andrew Patterson (2018)	AA, City College of San Francisco; BS, California State University, East Bay; MBA, California State University, East Bay; Business	Catherine A. Suárez (2006)	BA, University of the Pacific; ME, University of the Pacific; Foreign Languages
Michael H. Peterson (2015)	BA, Stanford University; BS, Stanford University; MS, Stanford University; Mathematics	Meghan C. Swanson-Garoupa (2015)	AA, Las Positas College; BA, University of California, Santa Barbara; MA, California State University, East Bay; English
David J. Powers (2016)	BS, California State University, Hayward; MS, California State University, Hayward; Mathematics	Nadiyah Taylor (2009)	BA, Macalester College; MA, Pacific Oaks College; Early Childhood Development
Robin Rehagen (2015)	BA, University of California, Berkeley; MS, University of California, Los Angeles; PhD, University of California, Los Angeles; Physics	Sarah K. Thompson (1996)	BA, Hamilton College; MA, Rutgers University; Sociology
Kali A. Rippel (2015)	BA, San Francisco State University; MLIS, University of Wisconsin; Library and Information Science	Collin Thormoto (2018)	BA, California State University, Hayward; MLIS, California State University, San Jose; Library
Cecelia A. Browne Rosefield (2006)	AA, Los Medanos College; BA, California State University, Hayward; MA, Washington State University; Music	Kimberly A. Tomlinson (2001)	BA, University of Minnesota; MA, Luther Theological Seminary, St. Paul; Religious Studies
John J. Rosen (2016)	BA, University of California; MA, San Francisco State University; PhD, University of Illinois at Chicago; History	Paul S. Torres (2001)	AA, DeAnza College; BA, San Jose State University; MA, University of California, Riverside; Political Science
		Jin Tsubota (2018)	BS, University of California, San Diego; MFA, University of Pennsylvania; ME, Stanford University; Tutoring

Kisha E. Turner (2016)	BA, University of California, Los Angeles; MA, California State University, Dominguez Hills; English
Sheena M. Turner-August (2016)	BA, University of Southern California; MA, Pepperdine University; PhD, California School of Professional Psychology at Alliant International University; Psychology
Rafael A. Valle (2014)	BS, San Francisco State University; MS, Capella University; Counseling
Angella VenJohn (1999)	BS, University of Iowa; MA, California State University, Sacramento; Student Interventions Counselor
Marsha A. Vernoga (2014)	BS, California Polytechnic State University, San Luis Obispo; RD, California State University, San Francisco; MS, California State University, Chico; Nutrition
David E. Wagner (2016)	BA, California Polytechnic University, San Luis Obispo; BFA, California College of the Arts; MFA, The New York Academy of Art; Studio Art
Grazyna “Gina” Webster (2005)	BS, Agricultural University of Warsaw; MS, Agricultural University of Warsaw; MS, University of California, Berkeley; PhD, University of California, Berkeley; Economics
Jeffrey P. Weichert (2019)	BS, George Washington University; MS, Capella University; Computer Networking Technology
Elizabeth A. Wing Brooks (2016)	BA, University of San Francisco; MA, University of Cincinnati; Spanish; PhD, University of California, Davis; Comparative Literature
Kristine W. Woods (2003)	BS, Willamette University; MA, California State University, Hayward; Mathematics
Ashley J. Young (2016)	BA, University of California, Berkeley; MA, California State University, East Bay; Mathematics
Michelle D. Zapata (2014)	BA, University of California, Berkeley; MPA, University of Washington; MA, Saint Mary’s College; Counseling
Barbara C. Zingg (1997)	BS AKAD, Zurich; DVM, University of Berne; PhD, University of California, Davis; Biology

Past Presidents

Barbara Adams	1990-1993
Susan Cota	1993-2001
Karen Halliday	2002-2007
DeRionne Pollard	2008-2010

Kevin Walthers	2011-2013
Barry Russell	2013-2018
Roanna V. Bennie (Interim)	2017-2019

Emeriti

Trustees Emeriti

Edward E. Martins	1962-1967
William A. Tenney	1961-1967
Fredrick T. Sullivan	1961-1971
James S. Martin	1969-1975
Ann H. Duncan	1971-1984
E.J. “Jay” Chinn	1961-1985
L. Arthur Van Etten	1961-1985
Dorothy S. Hudgins	1967-1987
Lawrence R. Jarvis	1975-1987
Margaret R. Wiedman	1977-1989
Fred M. Duman	1967-1991
Elva Cooper	1987-1996
Linda M. Tangren	1989-1998
Barry L. Schrader	1987-2000
Gary R. Craig	1985-2005
Alison S. Lewis, Ph.D	1991-2008
Barbara F. Mertes, Ph.D	2000-2015
Arnulfo Cedillo, Ed.D	1985-2017
Isobel F. Dvorsky	1985-2018
Carlo Vecchiarelli	2004-2019
Donald L. “Dobie” Gelles	1998-2019

Las Positas Emeriti

Byford H. Scott Instructor	1962-1979
Stuart J. Inglis Instructor	1965-1984
Georgia E. Owens Instructor	1964-1985
Virginia I. Maccrossen Admissions and Records Clerk II	1973-1986
Hal Lubin Instructor	1961-1988
Marjorie R. O’Leary Executive Secretary	1971-1989
George Anna Tow Counselor/Instructor	1975-1989
Gerald D. Friedel Instructor	1967-1991

Irving Batz Dean of Student Services	1968-1991	Ruth S. Feldman Instructor	1969-1999
Donald V. Nilsen Instructor	1974-1991	David A. Wright Instructor	1965-1999
Faye L. Gleason Secretary I	1980-1991	Karen O. Albertson Instructional Computer Laboratory Specialist	1981-1999
John T. Healey Instructor	1966-1992	Linda L. Lucas Dean of Academic Services	1969-2000
Louie C. Abaitua Assistant Maintenance Supervisor	1972-1992	LaVere H. Adams Instructor	1980-2000
John R. Rodriguez Grounds Technician	1965-1993	Esther S. Goldberg Instructor	1970-2001
Joan M. Campanile Secretary to the President	1966-1993	Victor G. Willits Instructor	1986-2001
Margaret C. Emery Instructor	1975-1993	Janice E. Winegarner Student/Staff Liaison, Office Specialist/Secretary II	1990-2001
Elizabeth E. Inglis Instructional Assistant II	1976-1993	Arthur S. Deleray Instructor	1970-2002
John William Rath Dean of Academic Services	1984-1993	Robert J. Wood Instructor	1970-2002
Mason C. Layman Counselor/Instructor	1975-1994	Dee D. Roshong Dean of Student Services	1965-2003
William H. Cox Lead Custodian	1984-1994	Aileen T. Furuyama Librarian	1992-2003
Juanita R. Focha Instructor	1967-1995	Juliette A. Bryson Instructor	1971-2004
Edward G. Cates Instructor	1970-1995	Anne M. Powell Instructor	1974-2004
Jerald T. Ball Instructor	1964-1996	Carol E. Clough Instructor	1977-2004
Robert E. Dahl Instructor	1967-1996	Carol L. Abert Instructional Assistant II	1979-2004
Janice M. Albert Instructor	1962-1979	Alene H. Hamilton Counselor/Instructor	1980-2004
Judith Porta Instructor	1975-1997	Jane E. Benham Instructional Assistant II	1989-2004
Patricia J. Richmond Counselor Assistant I	1979-1997	Walter T. Mara Instructor	1984-2004
Joan H. Long Instructor	1989-1997	Richard I. Solomon Instructor	1991-2004
Lola Bermudez Acting Dean, Academics Services	1981-1997	Donald R. Milanese Vice President of Academic Services	1970-2005
Phillip "Babe" M. Castillo Assistant Custodial Supervisor	1962-1998	James H. Adams Science Education Technician	1979-2005
Robert P. Dickinson, Jr. Instructor	1977-1998	Ronald E. Liljedahl Instructor	1980-2005
Joan D. Newsom Cashier/Buyer Bookstore	1981-1998	Connie A. Bish Instructional Assistant II	1982-2005
Barry J. Deadder Security Supervisor	1982-1998	James L. Landre Instructor	1982-2005

Gary F. Svihula Instructor	1982-2005	James B. Heiner Instructor	1981-2009
Margaret E. Riley Instructor	1985-2005	Mary Straight Assessment Specialist	1984-2009
William R. Dunn Instructor	1987-2005	Lindell R. Bruce Instructor	1985-2009
Sharon A. Cadwalader Executive Assistant to the President	1986-2005	Theresa M. Costa Student Counseling Assistant I	1990-2009
Alice Y. Kwan Admissions and Records Assistant II	1988-2005	Abigail McCann Instructor	1990-2009
William McCarthy Security Officer	1990-2005	Donna J. Impey Instructional Assistant II	1991-2009
Denise Van Horn-Landre Articulation Officer	1995-2005	Sharon R. Keick Custodial Supervisor	1992-2009
Maria Elena Pellinen Instructor	1975-2006	Alice M. Moyer Instructional Assistant II	1992-2009
Arthur S. Tenbrink Counselor/Instructor	1980-2006	Martha L. Peterson Accompanist	1996-2009
Lucy A. Sponsler Instructor	1991-2006	Gale "Jackie" Fitzgerald Instructor	1997-2009
Eric Golanty Instructor	1993-2006	Margaret Egan Counselor Assistant I	1999-2009
Peggy C. Carter Librarian	1989-2007	Ken Ross Instructor	1990-2009
James A.R. Forcier Instructor	1976-2007	Richard D. Butler Director of Safety & Security	1999-2010
Lettie J. Camp Career/Transfer/Employment Coordinator	1979-2007	Nancy Wright Counselor	2000-2010
Barbara W. Hardy Librarian	1988-2007	Dale Boercker Instructor	1988-2011
Sharron L. Dupree International Admissions Specialist	1993-2007	Martha K. Konrad Executive Assistant	1991-2011
Judith K. Hanson Academic Services Specialist II	1988-2007	Mary E. Campbell Instructor	1990-2011
Keith E. Jolly Instructor	1984-2008	Judy Martinez Staff Assistant	1997-2011
Robert F. Breuer Instructor	1990-2008	Philip Manwell Dean of Academic Services	1997-2011
Patrick L. Pohl Instructor	1971-2009	Leslie Gravino Work Based Learning Program Coordinator	1998-2012
Linda L. Peifer Administrative Assistant II	1975 -2009	Connie Reding Staff Assistant	1995-2012
Sophie C. Rheinheimer Instructor	1975-2009	Carolyn I. Smutny Staff Assistant	2002-2012
Steven E. Bundy Counselor/Instructor	1976-2009	Neal M. Ely Dean, Academic Services	1998-2013
Karen B. Pihl Instructor	1976-2009	Sandra L. Ashburn Telephone Operator/Receptionist	2000-2014
David B. Vigil Laboratory Technician IV	1980-2009	Lawrence F. Aguiar Instructor	1977-2014

Cynthia W. Ross Instructor	2001-2014	Deborah G. Earney Admissions and Records Assistant II	1984-2018
Cheryl Warren Librarian	2004-2014	James J. Gioia Instructor	2001-2018
John S. Gonder Instructor	2002-2015	Constance F. Hildebrand Counselor Assistant I	2001-2018
Donna S. Hawkinson Student Counseling Assistant II	1998-2015	Ronald J. Johansen Instructor	2005-2018
Theodore K. Kaye Executive Director, College Foundation	2004-2015	Ernest D. Jones Instructor	1991-2018
Cynthia M. Keune Instructor	2004-2015	Steven J. Navarro Instructor	1995-2018
Jane C. McCoy Instructor	1994-2015	Virginia P. Ripplinger Senior Administrative Assistant	1982-2018
Geoffrey C. Smyth Instructor	1990-2015	Paula M. Schoenecker Instructor	2008-2018
Randolph J. Taylor Instructor	1990-2015	Mark S. Tarte Instructor	2002-2018
Gilberto N. Victoria Counselor	1995-2015	Lisa T. Weaver Instructor	2004-2018
Jeanne M. Virgilio ECD Professional Development Coordinator	2001-2015	Sylvia R. Wodyka Dean, Student Services- Enrollment	1994-2018
Candace L. Klaschus Instructor	2005-2016	Colin G. Schatz Instructor	2008-2018
Carmen L. McCauley Senior Administrative Assistant	1993-2016	Carol Edson Laboratory Technician	2008-2019
Karin Rose Senior Administrative Assistant	2006-2016	Joseph A. Dazhan Security Officer	2009-2019
Cynthia A. Ahre Senior Instructional Assistant	1980-2017	Valerie Ball Senior Administrative Assistant	2000-2019
Carolyn S. Baranouskas Instructor	1990-2017	Natasha R. Lang College Administrative Services Officer	2005-2019
Janice A. Cantua Admissions & Records Assistant III	1995-2017	Donna G. Reed Assessment Specialist	2007-2019
Gregory T. Daubenmire Instructor	2000-2017	William S. Eddy Physical Education/Athletics Assistant	2005-2020
Gerry L. Gire Laboratory Coordinator	2005-2017	Terry K. Johnson Instructor	1999-2020
Teresa G. Henson Instructor	2000-2017	Gregory S. Johns Instructional Assistant	1998-2020
Marilyn M. Marquis Instructor	1991-2017	Classified Professionals	
Barbara J. Morrissey Dean	1991-2017	Las Positas College	
Brian H. Owyong Counselor/Instructor	1997-2017	Evelyn P. Andrews	Veterans Specialist
Zina L. Rosen-Simon Instructor	2001-2017	Catherine M. Alfaro Gomez	Financial Aid Outreach Specialist
Janet Brehe-Johnson Instructor	1986-2018	Marguerite L. Alvarez	Veterans Specialist
		Miguel A. Alvarez	Outreach Specialist
		Monica Alvarez	Senior Administrative Assitant, PATH

Adria L. Anderson-Kelly	Administrative Assistant, Admissions and Records	Josue A. Hernandez Castro	Program Coordinator, Student Life and Leadership
John M. Armstrong	Student Records Evaluator	Alesia High	Accounting Technician
Kathleen A. Aubel	Admissions & Records Assistant II	Christine E. Hornbaker	Instructional Systems Technician
Simmy Bains	Financial Aid Advisor II	Amanda Ingold	Program Coordinator – CalWORKs
Cynthia J. Balero	Program Coordinator-International Students	Ralitsa K. Ivanova Olsson	Senior Administrative Assistant
Haywood Beard	Computer Network Support Specialist II	Jamila Jabbar-Mahmood	Financial Aid Advisor II
Anna M. Belaustegui	Instructional Assistant, Math	Azadeh Jorgensen	Senior Administrative Assistant, Enrollment Services
Nathan J. Brandon	Physical Education/Athletics Assistant	Larysa V. Karpylovych	Instructional Assistant II
Jesus Bravo-Morales	Degree Audit/Student Education Planning System Coordinator	Anne K. Kennedy	Outreach Specialist
Melissa J. Brown	Counselor Assistant II	Diana N. Kleinschmidt	Library Services Specialist
Jeff W. Burns	Security Officer	Michelle L. Kumamoto	Instructional Assistant, Math
Wanda L. Butterly	Instructional Technology Specialist	Jeffrey T. Lawes	Admissions & Records Assistant III
Fernando Calzada	Computer/Network Specialist II	Anela L. Le Cara	Athletic Trainer
Neil P. Carey	Instructional Assistant	David D. Lee	Computer/Network Specialist II
Lucciana D. Caselli	Laboratory Technician	Jadin Lee-Forbes	Telephone Operator/Receptionist
Angelica D. Cazarez	Senior Administrative Assistant, President's Office	Sherman Lindsey	Instructional Systems Specialist
Barbara A. Chavez	Admissions & Records Assistant II	Humberto Lopez	Admissions and Records Assistant II
Lina Chea	Laboratory Technician	Andrew P. Lozano	Laboratory Technician
Laura Cornett	Laboratory Technician, Viticulture and Horticulture	Theresa L. Mailander	Early Childhood Specialist
Linda R. Cross	Senior Administrative Assistant	Jason M. Maxwell	Laboratory Technician
Frankie L. Danner	Security Communications Dispatch	Elizabeth J. McWhorter	Outreach Specialist
Terri L. Danner	Counselor Assistant II	Andrea M. Migliaccio	Curriculum & Scheduling Specialist II
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Sean P. Day	International Admissions Specialist	Cheri Morrell	Instructional Assistant II
Ana M. Del Aguila	Early Childhood Development Professional Development Coordinator	Gina M. Oldenburg	Senior Administrative Assistant, Student Services
Stella M. Del Rosario	Senior Instructional Assistant, English	Jean C. O'Neil-Opipari	Program Coordinator, STEM
Frances M. DeNisco	Program Coordinator Community Ed	Carmen M. Ortiz	Early Childhood Specialist
Danielle R. Donohoe	Counselor Assistant II	Denise R. Paltan	Executive Assistant, Administrative Services
Timothy J. Druley	Webmaster	Lydia E. Penaflor	Financial Aid Advisor III
Virginia F. Edwards	Library Technician	Samantha Isabelle Portea	Laboratory Technician
Ana M. Espana	Counselor Assistant I	Sean I. Prather	Security Supervisor
Jennifer L. Farber	Instructional Assistant II	Teresita C. Rabon	Telephone Operator/Receptionist
Christina R. Flora	Laboratory Technician	Amy Rel	Financial Aid Advisor II
Michael T. Furuyama	Computer/Network Support Specialist II	Mike J. Rinaldi	Technical Theater-Performing Arts Instructional Specialist
Megan C. Garcia	Instructional Assistant	Regina M. Rivas	Early Childhood Assistant
Hakim Ghiassy	Security Officer	Cindy M. Robinson	Counselor Assistant I
Karl J. Haller	Stage Technician	J. David Rodriguez	Research Analyst
Kathy J. Harris	Senior Administrative Assistant		

Paula S. Rose	Senior Instructional Assistant
Aubrie R. Ross	Senior Administrative Assistant
Thomas D. Rothman	Accounting Technician
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Sui M. Song	College Administrative Services Officer
Todd A. Steffan	Veterans Program Supervisor
Michael S. Sugi	Security Officer
Wais Sultan	Security Officer
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Jeremiah C. Trujillo	Accompanist
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Olivia H. Underwood	Research Analyst
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Scott A. Vigallon	Instructional Technology/Open Learning Coordinator
James D. Weston	Senior Laboratory Technician
Madeline K. Wiest	Curriculum & SLO Specialist
Gary D. Wilkes	Laboratory Coordinator, Biology and Chemistry
Shannon L. Wittgen	Early Childhood Specialist
Karen M. Zeigler	Alternative Media Tech Specialist

Chabot-Las Positas Community College District

Alvin B. Ablaza	Lead Custodian
Pamela J. Bracy	Custodian I
Stacey L. Followill	Senior Programmer Analyst II
Gregory P. Fulson	Custodian
Catherine A. Gould	Senior Programmer Analyst III
Rosa S. Hempel	Custodian
Theresa A. Hirstein	Computer Operations Supervisor

Liem T. Huynh	Programmer Analyst II
Michael R. Miller	Maintenance Supervisor
Steven J. McGervey	Network Systems Specialist II
Federico F. Napagao	Custodian
Karen G. Pena	Admin Systems Analyst II
Jose R. Perez Hernandez	Grounds Worker I
Amanda M. Pisani	Admin Systems Analyst I
Pongpant Pungchai	Programmer Analyst II
Walter A. Rexroad	Lead Grounds Worker
Rodney L. Ribali	Grounds Supervisor
Darrick L. Spencer	Custodian
Revoyda Starling	Network Systems Specialist
Katherine L. Tollefsen	User Support Specialist
Danita A. Troche	Senior Programmer Analyst II
Rachel A. Ugale	Admin Systems Analyst II
Gonzalo R. Valencia	Custodial Supervisor

Las Positas College Bookstore

Nolan Howe	Manager
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Las Positas College Health Center

Tricia Gonsman	Director Health and Wellness Services, Nurse Practitioner
Monica Clifford	Medical Assistant
Gagan Preet	Health and Wellness Services Assistant
Heike Gecox MFT	Mental Health Clinical Supervisor

Las Positas College Foundation

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Las Positas College Foundation

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Las Positas College Foundation

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LAS POSITAS COLLEGE CAMPUS MAP

3000 Campus Hill Drive, Livermore, CA 94551 • www.laspositascollege.edu

KEY TO BUILDINGS

- | | | | |
|---------|--|------|--|
| 100 | Classrooms | 1700 | Campus Safety, Student Health Center, Copy Center, Mail Room |
| 400 | English Classrooms & Lab | 1800 | Science Technology Center 1 |
| 500 | Fine Arts | 1850 | Science Technology Center 2 |
| 600 | Classrooms, ILC (Integrated Learning Center), Open Math Lab | 1900 | Information Technology Services (ITS) |
| 600 A/B | Fire Service Technology Training | 2000 | Library (Learning Resource Center) |
| 700 | Visual Communications, Photography Studio, Computer Lab | 2100 | Faculty Offices |
| 800 | Lecture Hall, Computer Labs, Auto & Welding Labs, Smog Referee Center, Horticulture Viticulture, Garden Classrooms, Greenhouse | 2200 | Classrooms |
| 1000 | Classroom Building | 2300 | Child Development Center |
| 1100 | Central Utility Plant | 2400 | Multi-Disciplinary Education Building |
| 1300 | Bookstore | 2401 | Tutorial Center |
| 1310 | Veterans Resource Center | 2420 | Lecture Hall |
| 1600 | Student Services & Administration Building | 2500 | Physical Education Complex (Gym) |
| 1690 | Academic Services, Vice President's Office | 2600 | Aquatic Center |
| 1689 | Administrative Services, Vice President's Office | 2700 | Campus Hill Vineyard |
| 1670 | Admissions & Records | 3000 | Maintenance & Operations Building |
| 1642 | Assessment Center | 3100 | Maintenance & Operations Building |
| 1620 | Cafeteria | 3200 | Field House |
| 1604 | Career/Transfer Center | 4000 | Mertes Center for the Arts |
| 1663 | Community Education | 4119 | Main Theater |
| 1616 | Counseling Center | 4128 | Black Box Theater |
| 1615 | DSPS High Tech Center | | |
| 1668 | EOPS, CARE, CalWORKS | | |
| 1650 | Financial Aid | | |
| 1658 | International Student Program | | |
| 1672 | Online Service Center | | |
| 1680 | President's Office | | |
| 1643 | Student Government | | |
| 1669 | Student Services, Vice President's Office | | |
| 1643 | Welcome Center/Student Life Office | | |





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