

LAS POSITAS COLLEGE
CATALOG ADDENDUM 2010-2012
Published Spring 2011

Las Positas College publishes a full Catalog every two years. For the years in between, an Addendum is published. The Addendum contains important information that has been updated in the past year. The next full Catalog will be published in Spring 2012 and will span 2012-2014.

The following question and answer section is designed to respond to common questions about how to use this important document. As always, it is recommended that students seek the guidance of counselors for course, program, and transfer planning. In this way, you will be able to access all the most up-to-date information available.

Q. Why do we have an Addendum?

A. The College is constantly updating curriculum, program requirements and College information. It is important to have a print and web document that helps students and staff locate all of these changes.

Q. How do I use the Addendum?

A. The Addendum is to be used alongside the 2010-12 catalog, not in isolation. Check your program and course of interest to see if there have been any changes. Meet with your counselor if you have questions about how these changes affect your academic plan.

Q. Does the Addendum supersede the Catalog?

A. The Addendum is just that: an addition to the 2010-12 Catalog. Whatever is listed in the Addendum in terms of new courses and/or new program requirements does supersede what is in the Catalog. However, in terms of Catalog rights, if you began a program in Fall 2010 or Spring 2011, you will be able to adhere to the requirements listed in the 2010-2012 Catalog as long as you have no break in enrollment until the time of your completion. Once again, if you have questions about programs and courses, see a counselor.

Q. Where can I find the Addendum?

A. The Addendum is on the web; and there are hard copies in the Library, Counseling, Career, Transfer Employment Center, and Division offices. If you would like to purchase an Addendum, they are available for sale in the Bookstore.

We hope this document will be helpful to you. It has been prepared as carefully as possible to include the most up-to-the-minute information. Las Positas College and the Chabot-Las Positas Community College reserve the right to make changes as needs require, and to change, without notice, any of the information, requirements, and regulations in the College Catalog and the Catalog Addendum. If you have questions about the content or any other part of this document, please contact the counseling office and ask to see or speak with a counselor at 925.424.1400

(6/8/2011)

ACADEMIC CALENDAR 2011-2012

FALL 2011 SEMESTER

August 17	REGULAR FULL TERM INSTRUCTION BEGINS
August 20	Instruction begins for Saturday classes
September 2	NGR deadline— <i>in person</i>
September 3	No Saturday classes
September 5	NGR deadline-- <i>online</i>
September 5	Labor Day Holiday
September 6	CENSUS deadline
September 16	PASS/NO Pass deadline
October 28	Last day to apply for Degree/Certificate
October 28	60% point for Financial Aid
November 4	DROP WITH W deadline – online and in person
November 11	Veterans' Day Holiday
November 12	Saturday classes meet
November 23-25	Thanksgiving holiday
November 26	No Saturday classes
December 14	Final Exams
December 15	Final Exams
December 16	Final Exams
December 17	Saturday Final Exams
December 19	Final Exams
December 20	Final Exams
December 21 – January 2	Winter Break – Campus Closed

SPRING SEMESTER 2012

January 16	HOLIDAY – Martin Luther King
January 17	REGULAR FULL TERM INSTRUCTION BEGINS
January 21	Instruction begins for Saturday classes
February 17 – February 20	Presidents' Weekend Holiday (No Saturday classes)
April 7	No Saturday classes
April 9-14	Spring Break
May 19	Saturday Final Exams
May 21	Final Exams
May 22	Final Exams
May 23	Final Exams
May 24	Final Exams
May 25	Final Exams
May 25	Commencement
May 28	Memorial Day Holiday

WHAT'S IN THIS ADDENDUM?

Here are major changes in degrees, courses, and policies that have taken place since the publication of the 2010-2012 Catalog. See pages listed for more information or see a counselor.

DEGREES

NEW DEGREES (FULLY APPROVED)

- AA BIOLOGY (EMPHASIS IN ALLIED HEALTH), page 9
- AA ENVIRONMENTAL STUDIES, page 14
- AA MASS COMMUNICATIONS, page 15

NEW DEGREES (STATE APPROVAL PENDING)

- AS EMERGENCY MEDICAL SERVICES, page 12
- AA ENVIRONMENTAL SCIENCE, pages 12, 13
- AA CHEMISTRY EDUCATION, page 10
- AS-T MATHEMATICS, page 16
- AA-T SOCIOLOGY, page 17
- AA-T SPEECH STUDIES, page 17

REVISED OR CORRECTED DEGREES

- AS CHEMISTRY, page 9
- AA EARLY CHILDHOOD DEVELOPMENT, page 11
- AA MUSIC, page 16

PROGRAM BASED GE REQUIREMENTS identified for Associate in Science Degrees

Automotive Technology	MATH 71
Business	SPCH 10 or SPCH 11
Chemistry	ECOL 10 or BIOL 31 or CS 1
Computer Programming	CHEM 1A or CHEM 31 or PHYS 8A or PHYS 2A or MATH 42 or MATH 44
Computer Programming for the Web	CHEM 1A or CHEM 31 or PHYS 8A or PHYS 2A or MATH 42 or MATH 44
Computer Science	CHEM 1A or CHEM 31 or PHYS 8A or PHYS 2A or MATH 42 or MATH 44
Emergency Medical Services	BIOL 50
Fire Service Technology	SPCH 1
Interior Design	SPCH 1
Occupational Safety & Health	ECOL 10
Physics	MATH 7
Surgical Technology	ANAT 1
VWT: Viticulture	BOTN 1
Welding Technology	BUSN 52 or BUSN 55 or CIS 50 or SPCH 1 or SPCH 10 or WLDT 71

CERTIFICATES

NEW CERTIFICATES

- EMERGENCY MEDICAL SERVICES (ACHIEVEMENT), page 18
- MASS COMMUNICATIONS—RADIO (CAREER), pages 20, 21
- OCCUPATIONAL SAFETY AND HEALTH (ACHIEVEMENT), page 21

REVISED CERTIFICATES

- AUTOMOTIVE TECHNOLOGY—CALIFORNIA SMOG PROGRAM (CAREER), page 17
- BUSINESS--BOOKKEEPING (CAREER), page 17
- ECD—BASIC TEACHER (ACHIEVEMENT), page 18
- ECD—FAMILY CHILD CARE (ACHIEVEMENT), page 19
- PHARMACY TECHNOLOGY (ACHIEVEMENT), page 22
- PSYCHOLOGY/COUNSELING--HEALTH AND HUMAN SERVICES (ACHIEVEMENT), page 20

COURSES

Pages 23-44 Courses are listed in order by discipline rubric (alpha) and number.

NEW COURSES

- BUSN 63 Payroll Accounting I, 2 units
- CIS 55C Microsoft Office: What's New, 2 units
- CIS 55D Office Web Apps, Collaboration, Cloud Computing, 2 units
- CIS 90.01 Database Management Systems, 2 units
- CIS 90.02 Oracle: Database Design and SQL Programming, 3 units
- CIS 90.03 Oracle: Database Programming with PL/SQL, 3 units
- CIS 90.04 Oracle: Database Administration, 3 units
- CIS 90.10 Writing SQL Queries Using Microsoft SQL Server, 2 units
- CIS 91.01 Internet Business Fundamentals, 1.5 units
- CIS 91.02 Network Technology Foundations, 1.5 units
- CIS 91.03 Web Site Development Foundations, 2 units
- CIS 91.04 Web Design Specialist, 3 units
- CIS 91.05 E-Commerce Web Technology, 2 units
- CIS 94 Computer Skills for the Workplace, 2 units
- ECD 100 Support for Early Childhood Success, 1 unit
- FST 86A CAL FIRE BASIC FIREFIGHTER (2010), 5 units
- GNST 21 Introduction to Team Self-Management, 2 units
- LRNS 110 Transition to College Disability Services and Programs
- MATH 71A Applied Mathematics for Technicians A, 1.5 units
- MATH 71B Applied Mathematics for Technicians B, 1.5 units
- MATH 100 Pre-Algebra and Algebra Review, 1 unit
- MATH 107A Pre-Algebra A, 2 units
- MATH 107B Pre-Algebra B, 2 units
- MSCM 32L Radio Production Laboratory, 2 units
- PE AWT Adapted Weight Training, 0.5-2 units
- PE DS Disc Sports, 0.5-2 units
- PE JDB Jazz Dance Beginning, 0.5-2 units

New Courses (Continued)

- PE JDI Jazz Dance Intermediate, 0.5-2 units
- PE LG Lifeguarding, 1.5 units
- PE SWA Swimming Advanced, 2 units
- PE WP Water Polo, 1 unit
- WLDT 79 Manufacturing Processes, 2 units
- WLDT 80 The Welding Business, 2 units
- WMST 1 Introduction to Women's Studies, 3 units
- WMST 2 Global Perspective of Women, 2 units

REVISED COURSES

- BIOL 10 Introduction to the Science of Biology, 4 units
- BUSN 20 International Business, 3 units
- CHEM 1A General Chemistry I, 5 units
- CHEM 1B General Chemistry II, 5 units
- CHEM 12A Organic Chemistry I, 5 units
- CHEM 12B Organic Chemistry II, 5 units
- CHEM 30A Introductory and Applied Chemistry I, 4 units
- CHEM 30B Introductory and Applied Chemistry II, 4 units
- CHEM 31 Introduction to College Chemistry, 4 units
- CIS 65 Introduction to Desktop Operating Systems, 2 units
- CIS 71A Keyboarding (The Alphabet), 1 unit
- CIS 71B Keyboard (Numbers and Symbols), 1 unit
- CIS 71C Skills Improvement, 1 unit
- CIS 72A Data Management, 1 unit
- CIS 72B Spreadsheet Integration with Word Processing, 1 unit
- CIS 73A Ten-Key Skill Development, 1 unit
- CIS 88A Introduction to Microsoft Word, 1.5 units
- CIS 88B Advanced Microsoft Word, 1.5 units
- CIS 89B Desktop Publishing
- CNT 50 Introduction to Desktop Operating Systems, 2 units
- CNT 51A CompTIA A+ Essentials Certification, 2 units
- CNT 51B CompTIA A+ Practical application Certification, 2 units
- CNT 54 Windows Client—MS Networking Certification, 3 units
- ECD 56 Child Growth and Development, 3 units (Course revised/renumbered ECD 51)
- ECD 69 Child Study: Observation and Assessment, 3 units
- ECD 80 Advanced Topics in Childhood Development, 1-3 units
- EMS 61 Emergency Medical Responder, 3 units
- EMS 62 Basic Medical Terminology for Allied Health, 3 units
- EMS 70A Community Cardiopulmonary Resuscitation, 0.5 unit
- EMS 70B Cardiopulmonary Resuscitation for Health Care Provider, 0.5 unit
- EMS 81 Emergency Medical Technician, 6.5 units
- EMS 91 Emergency Medical Technician-Refresher, 1.5 units
- ENG 1A Critical Reading and Composition, 3 units
- ENG 19 Literary Magazine, 2-3 units
- HSCI 52 Basic Medical Terminology for Allied Health, 3 units

Revised Courses (Continued)

- HORT 81 Home Landscape Design, 2 units
- HUMN 10 The American Style, 3 units
- HUMN 28 The Classic Myths, 3 units
- HUMN 35 Greek Tragedy, 3 units
- HUMN 44 Narrative Film Music, 3 units
- INTD 62 Kitchen and Bathroom Design, 3 units
- MATH 34 Calculus for Business and Social Sciences, 5 units
- MSCM 32 Radio Production, 3 units
- PE 17 Introduction to Athletic Training, 3 units
- SPCH 48 Activities in Forensics, 1-4 units
- THEA 39 Musical Theater Workshop, 3 units
- WRKX 95 Work Experience, 1-3 units
- WRKX 95 Work Experience Seminar, 1 unit

DELETED OR INACTIVE COURSES (effective Fall 2011)

- BUSN 51B General Accounting II, 3 units
- CIS 71D Skills Development, 1 unit
- CIS 71E Speed and Accuracy Improvement, 1 unit
- CIS 86 Overcoming Computer Anxiety, 1 unit
- ECD 51 Prenatal to Early Childhood, 3 units (Revised and replaced by ECD 56)
- ECD 55 The Professional Caregiver, 2 units
- FST 86 Wildland Firefighter 1—Basic, 3 units
- HORT 69 Advanced Landscape Design, 3 units
- HORT 72 Viticulture Field Management and Practice, 3 units
- HORT 80 Fundamentals of Horticulture, 2 units
- MATH 57 Plane Geometry, 3 units
- MATH 60 Math Study Skills, 1 unit

POLICIES

- **AA-T and AS-T DEGREES FOR TRANSFER (SB1440 DEGREES)**

Requirements for the Associate in Arts for transfer (AA-T) or Associate in Science for transfer (AS-T):

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer”, a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units

after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

No majors for the AA-T or AS-T have yet been approved for Las Positas College by the State Chancellor's Office, but majors are under development in Mathematics, Sociology, and Speech Communication Studies. For more information, please see a counselor and {{insert website}} for more information.

The following is required for all AA-T or AS-T degrees:

1. Minimum of 60 CSU-transferable semester units.
2. Minimum 18 units in major required and completion of CSU GE or IGETC.
3. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.

- **"C" OR HIGHER IN MAJOR COURSES (CALIFORNIA ED CODE §55063)**

(a) Requirements for a major or area of emphasis.

- (1) At least 18 semester or 27 quarter units of study must be taken in a single discipline or related disciplines, as listed in the community colleges "Taxonomy of Programs," or in an area of emphasis involving lower division coursework which prepares students for a field of study or for a specific major at the University of California or the California State University.
- (2) Effective for all students admitted to a community college for the Fall 2009 term or any term thereafter, each course counted toward the unit requirement of this subdivision must be completed with a grade of C or better or a "P" if the course is taken on a "pass-no pass" basis.

- **MINIMUM REQUIREMENTS FOR THE ASSOCIATE DEGREE (CALIFORNIA ED CODE § 55063)**

The governing board of a community college district shall confer the associate degree upon a student who has demonstrated competence in reading, in written expression, and in mathematics, and who has satisfactorily completed at least 60 semester units or 90 quarter units of degree-applicable credit course work (as defined in section 55002(a)) which falls into the categories described in section 55062. A college may also accept toward satisfaction of this requirement courses that were not completed at a California community college that would reasonably be expected to meet or exceed the standards of section 55002(a).

Effective for all students admitted to a community college for the Fall 2009 term or any term thereafter, competence in written expression shall be demonstrated by obtaining a satisfactory grade in an English course at the level of the course typically known as Freshman Composition (either Freshman Composition or another English course at the same level and with the same rigor, approved locally) or by completing an assessment conducted pursuant to subchapter 6 of this chapter (commencing with section 55500) and achieving a score determined to be comparable to satisfactory completion of the specified English course. Satisfactory completion of an English course at the level of Freshman Composition shall satisfy both this competency requirement and the coursework requirement set forth in subdivision (b)(1)(D)(i) of this section.

Effective for all students admitted to a community college for the Fall 2009 term or any term thereafter, competence in mathematics shall be demonstrated by obtaining a satisfactory grade in a mathematics course at the level of the course typically known as Intermediate Algebra (either Intermediate Algebra or another mathematics course at the same level, with the same rigor and with Elementary Algebra as a prerequisite, approved locally) or by completing an assessment conducted pursuant to subchapter 6 of this chapter (commencing with section 55500) and achieving a score determined to be comparable to satisfactory completion of the specified mathematics course. Satisfactory completion of a mathematics course at the level of Intermediate Algebra shall satisfy both this competency requirement and the coursework requirement set forth in subdivision (b)(1)(D)(ii) of this section.

The competency requirements for written expression and mathematics may also be met by obtaining a satisfactory grade in courses in English and mathematics taught in or on behalf of other departments and which, as determined by the local governing board, require entrance skills at a level equivalent to those necessary for Freshman Composition and Intermediate Algebra respectively.

- **PREREQUISITES**

1. Course prerequisites: Students wanting to enroll in a course with a prerequisite must satisfactorily complete that prerequisite before they are allowed to register.
2. The "P" (pass) grade will be given to indicate completion of a course with "C" or better work. Some courses are offered solely for a pass/no pass (P or N) grade.

GENERAL EDUCATION CHARTS UPDATED FOR 2011

- LPC General Education Pattern for Associate in Arts Degree 2011-12, effective Fall 2011, page 45
- LPC General Education Pattern for Associate in Science Degree 2011-12, effective Fall 2011, page 46
- California State University General Education Breadth (CSU GE) Requirements, effective Fall 2011, pages 47, 48
- Intersegmental Transfer Curriculum (IGETC), effective Fall 2011, pages 49, 50

DEGREES

❖ BIOLOGY

AA –Biology (Emphasis in Allied Health)

CHANGE: DEGREE IS NOW FULLY APPROVED, EFFECTIVE FALL 2010

Freshman Year

Anatomy 1 (General Human Anatomy)	5 units
Chemistry 30A (Introductory and Applied Chemistry I)	4 units
Chemistry 30B (Introductory and Applied Chemistry II)	4 units
General Education Courses	

Sophomore Year

Microbiology 1 (Microbiology)	5 units
Physiology 1 (Human Physiology)	5 units
General Education Courses	

Total units required for degree	60 units
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❖ CHEMISTRY

AS – ASSOCIATE IN SCIENCE DEGREE IN CHEMISTRY (Transfer Preparation)

CHANGE: CORRECTION OF PROGRAM BASED GE REQUIREMENT; NEW COURSE TITLES

Freshman Year

Chemistry 1A** (General College Chemistry I)	5 units
Chemistry 1B (General College Chemistry II)	5 units
Mathematics 1 (Analytical Geometry and Calculus I)	5 units
Mathematics 2 (Analytical Geometry and Calculus II)	5 units
Physics 8A (General Physics I)	5 units
Recommended Electives*	
General Education Courses§	

Sophomore Year

Chemistry 12A (Organic Chemistry I)	5 units
Chemistry 12B (Organic Chemistry II)	5 units
Mathematics 3 (Multivariable Calculus)	5 units
Physics 8B (General Physics II) or Physics 8C (General Physics III)	3-5 units 5 units
Recommended Electives*	
General Education Courses§	

Total units required for degree	60 units
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§Program-based General Education requirement (may be taken either freshman or sophomore year): ECOL 10 or BIOL 31 or CS 1

AS—Chemistry (Requirements continued from previous page)

*Recommended Electives:

Physics 8B (General Physics II) or Physics 8C (General Physics III)
Physics 8D (General Physics IV)
Mathematics 5 (Differential Equations with Computer Applications)
Mathematics 7 (Elementary Linear Algebra with Computer Applications)
Computer Science 1 (Computing Fundamentals I)

** Fulfills the Natural Science requirement for the AS degree.

To remain in a chemistry class a student must demonstrate competency in chemistry lab safety procedures by receiving a satisfactory score on the safety quiz administered during the NGR period.

❖ CHEMISTRY

AA – ASSOCIATE IN ARTS DEGREE IN CHEMISTRY EDUCATION§

CHANGE: NEW DEGREE; §APPROVAL BY STATE CHANCELLOR’S OFFICE IS PENDING

Freshman Year

Biology 31 (Introduction to Biology)	4 units
Chemistry 1A* (General College Chemistry I)	5 units
Chemistry 1B (General College Chemistry II)	5 units
Math 1** (Analytical Geometry and Calculus I)	5 units
Math 2 (Analytical Geometry and Calculus II)	5 units
General Education Courses	

Sophomore Year

Chemistry 12A (Organic Chemistry I)	5 units
Chemistry 12B (Organic Chemistry II)	5 units
Physics 2A (Introduction to Physics I)	4 units
Physics 2B (Introduction to Physics II)	4 units
General Education Courses	

Total units required for degree	64 units
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* Fulfills Natural Sciences requirement

**Fulfills Communication and Analytical Thinking requirement

***Recommended Electives are suggested for students interested in taking courses beyond unit requirement for degree

Environmental Studies 5
Geology 1
Ecology 10

❖ **EARLY CHILDHOOD DEVELOPMENT**

AA – ASSOCIATE IN ARTS DEGREE IN EARLY CHILDHOOD DEVELOPMENT

CHANGE: CORRECTION OF CORE REQUIREMENTS; CHANGE OF ELECTIVES

Freshman Year

Early Childhood Development 50 (Early Childhood Education and Care)	3 units
Early Childhood Development 56 (Child Growth and Development)**	3 units
Early Childhood Development 62 (Child, Family and Community)	3 units
Early Childhood Development 63 (Early Childhood Curriculum)	4 units
Electives*	0-4 units
General Education Courses	

Sophomore Year

Early Childhood Development 54 (Child Health, Safety, and Nutrition)	3 units
Early Childhood Development 60 (Introduction to the Young Child with Exceptional Needs)	3 units
Early Childhood Development 69 (Child Study through Observation)	3 units
Early Childhood Development 79 (Teaching in a Diverse Society)	3 units
Early Childhood Development 90 (Practicum—Supervised Experience)	4 units
Early Childhood Development 95*** (Work Experience)	2-3 units
Early Childhood Development 96*** (Work Experience Seminar)	1 unit
Electives*	0-4 units
General Education Courses	

Total units required for degree 60 units

*Electives

Select from the following for a minimum of 4 units:

- ECD 15 (Problems of Childhood)
- ECD 52 (Childhood and Adolescence)
- ECD 61 (Literature for the Young Child)
- ECD 64 (Play: Materials and Environments)
- ECD 65 (Administration)
- ECD 67 (Infant and Toddler Development and Care Giving)
- ECD 68 (Program Supervision)
- ECD 78 (Language Development)
- ECD 80 (Advanced Topics in Childhood Development)
- ECD 83 (Adult Supervision)

**NOTE: ECD 51 has been inactivated at Las Positas College beginning Fall 2011. ECD 56 has replaced it in degree and certificate requirements; students who have rights to the College Catalog 2010-12 may fulfill their degree or certificate requirements with ECD 51.

***See current College Catalog, page 164, for details on Work Experience.

❖ **EMERGENCY MEDICAL SERVICES**

AS – ASSOCIATE IN SCIENCE DEGREE -- EMERGENCY MEDICAL SERVICES

CHANGE: §CORRECTION OF PROGRAM BASED GE REQUIREMENT;

§§APPROVAL BY STATE CHANCELLOR’S OFFICE IS PENDING

Freshman Year

Health Science 52 (Basic Medical Terminology for Allied Health) or Emergency Medical Services 62 (Basic Medical Terminology for Allied Health)	3 units
Emergency Medical Services 61 (First Responder)	3 units
Biology 50 (Anatomy and Physiology)	4 units
Emergency Medical Services 81 (EMT-1 Basic)	6.5 units
Emergency Medical Services 50 (EMT-P Prep Theory)	5 units
Emergency Medical Services 51 (EMT-P Human Systems)	4 units
Emergency Medical Services 52 (EMT-P Pharmacology and Airway)	4 units
Emergency Medical Services 53 (EMT-P Medical Syndromes)	5 units
General Education§	

Sophomore Year

Emergency Medical Services 54 (EMT-P ABD and Neuro Systems)	4 units
Emergency Medical Services 55 (EMT-P Cardiac and Resp Systems)	4 units
Emergency Medical Services 56 (EMT-P Trauma and Shock)	4 units
Emergency Medical Services 57 (EMT-P Special Patient Populations)	4 units
Emergency Medical Services 58 (EMT-P Paramedic Field Training)	9-11 units
General Education§	

Total units required for degree 74.5-76.5 units

§Program Based GE Requirement: Speech 1 (Fundamentals of Speech Communication)

❖ **ENVIRONMENTAL SCIENCE**

AS—ASSOCIATE IN SCIENCE DEGREE – ENVIRONMENTAL SCIENCE

CHANGE: NEW DEGREE; DEGREE IS NOW FULLY APPROVED

Catalog Description: *The Environmental Science program is a science- and math-based multi-disciplinary program focusing on scientific study of the interaction of humans and the natural environment. The Associate in Science degree will prepare students for upper-division studies through the completion of a course of study with special emphasis in the natural and physical sciences. Students will also be able to meet the transfer requirements of specialized Environmental Science programs by pursuing elective studies in Political Science, Geology, Humanities, Sociology, and Anthropology. In addition to meeting transfer requirements, the Environmental Science major at Las Positas will prepare students to contribute both personally and professionally to the goal of creating a sustainable future.*

AS— ENVIRONMENTAL SCIENCE§ (Requirements continued from previous page)

Freshman Year

Biology 1** (General Biology)	5 units
Chemistry 1A (General College Chemistry I)	5 units
Chemistry 1B (General College Chemistry II)	5 units
Geology 1 (Physical Geology)	3 units
Geology 1L (Physical Geology Laboratory)	1 unit
Economics 1*** (Principles of Microeconomics)	3 units
General Education§§	

Sophomore Year

Botany 1** (General Botany)	5 units
Zoology 1** (General Zoology)	5 units
Mathematics * (Calculus I)	5 units
Mathematics 2 (Calculus II)	5 units
Physics 2A (Introduction to Physics I) <u>and</u> Physics 2B (Introduction to Physics II) <u>or</u> Alternate: Physics 8A****	5-8 units
Environmental Studies 5 (Energy and Sustainability)	3 units
General Education§§	

Total units required for degree 60 units

§§ Program-based General Education requirement (may be taken either freshman or sophomore year): Ecology 10

*satisfies math and communication/analytical thinking proficiency

**satisfies natural sciences GE

**satisfies social and behavioral sciences GE

****Physics 8B, 8C, and 8D may also be required by transfer institutions in order to replace Physics 2A and 2B

Recommended Electives

- Anthropology 1 (Physical Anthropology)
- Anthropology 2 (Introduction to Archaeology: Prehistory and Culture Growth)
- Anthropology 3 (Social and Cultural Anthropology)
- Biology 40 (Field Biology)
- Geography 15 (Introduction to Geographic Information Systems)
- Geology 3 (Historical Geology)
- Geology 5 (Environmental Geology: Hazards & Disasters)
- Geology 7 (Environmental Geology: Resources, Use Impact & Pollution)
- Geology 12 (Introduction to Oceanography)
- Humanities 6 (Nature and Culture)
- Political Science 7 (Introduction to American Government)
- Political Science 12 (Introduction to California State and Local Government)
- Sociology 5 (Global Change)

❖ **ENVIRONMENTAL STUDIES**

AA—ASSOCIATE IN ARTS DEGREE – ENVIRONMENTAL STUDIES

CHANGE: CLARIFICATION OF CORE REQUIREMENTS; ADDITION OF ELECTIVE COURSE;
DEGREE IS NOW FULLY APPROVED

Freshman Year

Biology 31 (Introduction to College Biology)	4 units
Chemistry 31 (Introduction to College Chemistry)	4 units
Geology 1 (Physical Geology)	3 units
Geography 1 (Introduction to Physical Geography)	3 units
Environmental Studies 5 (Energy and Sustainability)	3 units
*Electives	0-6 units
General Education courses	

Sophomore Year

Ecology 10 (Humans and the Environment)	3 units
Mathematics 42A (Introduction to Probability and Statistics) <u>or</u> Mathematics 44 (Statistics and Probability)	3-5 units
Economics 1 (Principles of Microeconomics)	3 units
Philosophy 2 (Introduction to Philosophy: Ethics)	3 units
Internship 1	1 unit
Internship 2	1 unit
*Electives	0-6 units
General Education courses	

Total units required for degree 60 units

*Electives

Select from the following courses for a minimum of 6 units:

- Anthropology 1 (Physical Anthropology)
- Anthropology 2 (Introduction to Archaeology: Prehistory and Culture Growth)
- Anthropology 3 (Social and Cultural Anthropology)
- Biology 40 (Field Biology)
- Geography 15 (Introduction to Geographic Information Systems)
- Geology 3 (Historical Geology)
- Geology 5 (Environmental Geology: Hazards & Disasters)
- Geology 7 (Environmental Geology: Resources, Use Impact & Pollution)
- Geology 12 (Introduction to Oceanography)
- Humanities 6 (Nature and Culture)
- Political Science 7 (Introduction to American Government)
- Political Science 12 (Introduction to California State and Local Government)
- Sociology 5 (Global Change)

❖ **MASS COMMUNICATIONS**

AA DEGREE – ASSOCIATE IN ARTS – MASS COMMUNICATIONS

CHANGE: NEW DEGREE; DEGREE IS FULLY APPROVED

Catalog Description: *The Mass Communications Program is designed to provide students with a broad understanding of the principles of Mass Communications as well as experience in the application of these principles to the campus media, including the newspaper, the radio station, the journalistic magazine, the literary magazine, television, and video journalism, 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.*

Freshman Year

English 1A (Critical Reasoning and Composition)	3 units
Mass Communications 1 (Journalism: News Writing)	3 units
Mass Communications 5 (Introduction to Mass Communications)	3 units
Mass Communications 2 (Journalism: Investigative News Writing) <u>or</u> Mass Communications 3 (Journalism: Magazine and Newspaper Feature Writing)	3 units
Mass Communications 31 (Introduction to Media)	3 units
Philosophy 2 (Introduction to Philosophy: Ethics)	3 units
Restricted/Recommended Electives*	0-9 units
General Education Courses	

Sophomore Year

Mass Communications 72 (Beginning Photo Journalism) <u>or</u> Photography 72 (Documentary Photography)	2 units
Mass Communications 35 (Introduction to Video Journalism)	3 units
Mass Communications 7 (Introduction to Public Relations)	3 units
Restricted/Recommended Electives*	0-9 units
General Education Courses	
Total units required for degree	60 units

*Restricted/Recommended electives

Select from the courses below for a minimum of 9 units. Some courses may be taken more than once for elective credit.

- Mass Communications 16 (Express College Newspaper)
- Mass Communications 17 (Express Editorial Board)
- Mass Communications 19 (Literary Anthology) or
English 19 (Literary Anthology)
- Mass Communications 32 (Radio Production)
- Mass Communications 32L (Radio Production Lab)
- Mass Communications 33A (Introduction to Television Studio Techniques)
- Mass Communications 33B (Intermediate Television Studio Techniques)
- Mass Communications 34 (Magazine Editing and Production)

❖ **MATHEMATICS**

AS-T ASSOCIATE IN SCIENCE – MATHEMATICS FOR TRANSFER

NEW DEGREE; APPROVAL BY STATE CHANCELLOR’S OFFICE IS PENDING

This degree has been submitted to the State Chancellor’s Office for Approval. For status update and degree requirements, please see a counselor or check the Las Positas website.

❖ **MUSIC**

AA DEGREE – ASSOCIATE IN ARTS – MUSIC

CHANGE: CORRECTION OF DEGREE TO REFLECT COURSE REVISIONS

Freshman Year

Music 8A (Harmony and Musicianship I)	4 units
Music 8B (Harmony and Musicianship II)	4 units
Music 21A (Beginning Piano)	1 unit
Music 21B (Beginning Piano-Intermediate)	1 unit
Music Electives*	2 units
Performance Electives**	2-3 units
General Education Courses	

Sophomore Year

Music 10A (Chromatic Harmony and Musicianship)	4 units
Music 10B (Post-Romantic and Twentieth Century Harmony)	4 units
Music Electives*	2 units
Performance Electives**	2-3 units
General Education Courses	

Total units required for degree 60 units

Music Electives*

Select course(s) from the following, for a minimum of 4 units:

- Music 1 (Introduction to Music)
- Music 23A (Elementary Voice I)
- Music 23B (Elementary Voice II)
- Music 30 (Study of Guitar)
- Music 31 (Study of Piano)
- Music 33 (Study of Voice)
- Music 38 (Individual Study)
- Music 39 (Music Theater Workshop)

Performance Electives**

Select course(s) from the following, for a minimum of 4 units:

- Music 12 (College Band)
 - Music 14 (Jazz Ensemble)
 - Music 15 (Jazz Band)
 - Music 16 (Orchestra)
 - Music 44 (Concert Choir)
 - Music 45 (Chamber Choir)
 - Music 46A (Beginning Jazz Choir)
 - Music 46B (Advanced Jazz Choir)
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❖ **SOCIOLOGY**

AA –T ASSOCIATE IN ARTS IN SOCIOLOGY FOR TRANSFER

NEW DEGREE; APPROVAL BY STATE CHANCELLOR’S OFFICE IS PENDING

This degree has been submitted to the State Chancellor’s Office for Approval. For status update and degree requirements, please see a counselor or check the Las Positas website.

❖ **SPEECH**

AA –T ASSOCIATE IN ARTS IN SPEECH COMMUNICATION STUDIES FOR TRANSFER

NEW DEGREE; APPROVAL BY STATE CHANCELLOR’S OFFICE IS PENDING

This degree has been submitted to the State Chancellor’s Office for Approval. For status update and degree requirements, please see a counselor or check the Las Positas website.

CERTIFICATES

❖ **AUTOMOTIVE TECHNOLOGY**

CAREER CERTIFICATES§

CALIFORNIA SMOG PROGRAM

CHANGE: CORRECTION OF UNIT VALUES

Automotive Technology 70A (Basic Clean Air Course)	3.5 units
Automotive Technology 70B (Enhanced Clean Air Car Course)	1.5 units
Automotive Technology 71A (Automotive Electrical /Electronic Systems)	1.5 units
Automotive Technology 71B (Engine Performance Systems)	1.5 units
Automotive Technology 71C (Advanced Engine Performance Systems)	1.5 units
Automotive Technology 99.70 (Current Smog Update Class)	0.5 units

Total units required for certificate 10 units

§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.

❖ **BUSINESS**

CAREER CERTIFICATE - BOOKKEEPING§

CHANGE: REVISION; CHANGE OF CORE REQUIREMENT AND REDUCTION OF UNITS

Business 61 (Introduction to QuickBooks Accounting)	1.5 units
Business 51A (General Accounting I)	3 units
Business 55 (Business Mathematics)	3 units
Business 63 (Payroll Accounting I)	2 units
Computer Information Systems 54 (Excel: Introduction to Spreadsheets)	4 units
Computer Information Systems 88A (Intro to Microsoft Word for Windows)	1.5 units

Total units required for certificate 15 units

§ 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.

❖ **BUSINESS**

**CERTIFICATE OF ACHIEVEMENT—ADMINISTRATIVE ASSISTANT AND
CERTIFICATE OF ACHIEVEMENT—BUSINESS WORKFORCE PROFICIENCY**

CHANGE: CORRECTION OF BUSINESS KEYBOARD COMPETENCY STATEMENT

*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 minute in a five (5) minute timing.*

❖ **EMERGENCY MEDICAL SERVICES**

EMERGENCY MEDICAL SERVICES—PARAMEDICS

CHANGE: NEW CERTIFICATE OF ACHIEVEMENT; § APPROVAL OF STATE
CHANCELLOR’S OFFICE IS PENDING

Health Science 52 (Basic Medical Terminology for Allied Health) or Emergency Medical Services 62 (Basic Medical Terminology for Allied Health)	3 units
Emergency Medical Services 61 (First Responder)	3 units
Emergency Medical Services 81 (EMT-1 Basic)	6.5 units
Biology 50 (Anatomy and Physiology)	4 units
Emergency Medical Services 50 (EMT-P Prep Theory)	5 units
Emergency Medical Services 51 (EMT-P Human Systems)	4 units
Emergency Medical Services 52 (EMT-P Pharmacology and Airway)	4 units
Emergency Medical Services 53 (EMT-P Medical Syndromes)	4 units
Emergency Medical Services 54 (EMT-P ABD and Neuro Systems)	4 units
Emergency Medical Services 55 (EMT-P Cardiac and Resp Systems)	4 units
Emergency Medical Services 56 (EMT-P Trauma and Shock)	4 units
Emergency Medical Services 57 (EMT-P Special Patient Populations)	4 units
Emergency Medical Services 58 (EMT-P Paramedic Field Training)	9-11 units
Total units required for certificate	<hr/> 58.5-60.5 units

❖ **EARLY CHILDHOOD DEVELOPMENT**

CERTIFICATE OF ACHIEVEMENT: BASIC TEACHER

CHANGE: CORRECTION OF COURSE LISTING

Early Childhood Development 50 (Early Childhood Education and Care)	3 units
Early Childhood Development 56(Prenatal to Early Childhood)	3 units
Early Childhood Development 62 (Child, Family and Community)	3 units
Early Childhood Development 63 (Early Childhood Curriculum)	4 units
Early Childhood Development 60 (Intro to the Young Child with Exceptional Needs)	3 units
Early Childhood Development 90 (Practicum—Supervised Experience)	4 units
Early Childhood Development 95*** (Work Experience)	1 unit
Early Childhood Development 96*** (Work Experience Seminar)	1 unit
Electives <i>Select one of the following for a minimum of 3 units:</i> (List follows on next page)	3 units

ECD—Basic Teacher Certificate (Requirements continued from previous page)

- Early Childhood Development 40 (Social and Emotional Foundations for Early Learning)
- Early Childhood Development 54 (Child Health, Safety, and Nutrition)
- Early Childhood Development 69 (Child Study through Observation)
- Early Childhood Development 79 (Teaching in a Diverse Society)

Total units required for certificate 25 units

*NOTE: ECD 51 has been inactivated at Las Positas College beginning Fall 2011. ECD 56 has replaced it in degree and certificate requirements, but students who have rights to the College Catalog 2010-12 may fulfill their degree or certificate requirements with ECD 51.
**See current College Catalog, page 164, for Work Experience Requirements.

❖ **EARLY CHILDHOOD DEVELOPMENT**
CERTIFICATE OF ACHIEVEMENT: FAMILY CHILD CARE

CHANGE: ADDITION OF ELECTIVE OPTION COURSES

- Early Childhood Development 50 (Early Childhood Education and Care) 3 units
- Early Childhood Development 56*(Prenatal to Early Childhood) 3 units
- Early Childhood Development 62 (Child, Family and Community) 3 units
- Early Childhood Development 70 (Family Child Care Profession) 2 units
- Early Childhood Development 95**(Work Experience) 1-3 units
- Early Childhood Development 96** (Work Experience Seminar) 1 unit
- Electives: *Select from the following for a minimum of 7 units:* 7 units
 - Early Childhood Development 15 (Abnormal Child Psychology)
 - Early Childhood Development 54 (Child Health, Safety, and Nutrition)
 - Early Childhood Development 60 (Teaching Special Needs Infants and Toddlers)
 - Early Childhood Development 64 (Play: Materials and Environments)
 - Early Childhood Development 67 (Infant and Toddler Development and Care Giving)
 - Early Childhood Development 73 (Family Child Care Provider Advanced Enrichment Course)
 - Early Childhood Development 74 (Child Guidance)
 - Early Childhood Development 81 (Planning Curriculum for the School-Age Child)

Total units required for certificate 20-22 units

NOTE: ECD 51 has been inactivated at Las Positas College beginning Fall 2011. ECD 56 has replaced it in degree and certificate requirements, but students who have rights to the College Catalog 2010-12 may fulfill their degree or certificate requirements with ECD 51.
**See current College Catalog, page 164, for Work Experience Requirements.

❖ **HEALTH AND HUMAN SERVICES (PSYCHOLOGY/COUNSELING)**

CERTIFICATE OF ACHIEVEMENT: HEALTH AND HUMAN SERVICES

CHANGE: REVISED CERTIFICATE; CERTIFICATE IS NOW FULLY APPROVED

Psychology-Counseling 5 (Introduction to Human Services)	3 units
Psychology-Counseling 3 (Introduction to Counseling Theory)	3 units
Psychology-Counseling 6 (Human Services Case Management Theory)	3 units
Psychology-Counseling 8 (Theories and Concepts of Group Theories)	3 units
Psychology-Counseling 13 (Multicultural Issues in Human Services <u>or</u> Sociology 3 (American Cultural and Racial Minorities)	3 units
Internship 1 (Internship Seminar)	1 unit
Internship 2 (Internship Field Placement)	1 unit
Electives*	2-3 units

Select from the following for a minimum of 2 units:

- Anthropology 3 (Social and Cultural Anthropology)
- Early Childhood Development 62 (Child, Family and Community)
- Health Science 55 (Orientation to Health Care)
- Internship 2 (Internship Field Placement)
- Psychology 1 (General Psychology)
- Psychology 6 (Abnormal Psychology)
- Psychology 12 (Lifespan Psychology)
- Psychology-Counseling 7 (Contemporary Issues)
- Psychology-Counseling 10 (Career and Educational Planning)
- Psychology-Counseling 11 (Interpersonal Relationships)
- Psychology-Counseling 19 (A Case Management Approach to
Addiction, Recovery and Prevention)
- Sociology 4 (Marriage and Family Problems)
- Sociology 6 (Social Problems)

Total units required for certificate	19-20 units
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❖ **MASS COMMUNICATIONS**

CAREER CERTIFICATE--RADIO COMMUNICATIONS

CHANGE: NEW; §CAREER CERTIFICATE

Catalog Description: *The Career Certificate in Mass Communications: Radio provides students with production and performance skills as well as a background in communication for entry-level employment in radio.*

First Semester

Mass Communications 32 (Radio Production)	3 units
Mass Communications 32L (Radio Production Lab)	2 units
<i>Select one course from the following for 3 units:</i>	3 units
Mass Communications 5 (Introduction to Mass Communications)	
Mass Communications 31 (Introduction to Media)	

MSCM—Career Certificate (continued from previous page)

<i>Select one course from the following for 3 units:</i>	3 units
Speech 1 (Fundamentals of Speech Communication)	
Music 1 (Introduction to Music)	
Theater Arts 1 (Theory and Practice of Acting)	
Theater Arts 25 (Fundamentals of Stage Speech)	

Second Semester

Mass Communications 32L Radio Production Lab	2 units
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<i>Select one course from the following for 3 units:</i>	3 units
Mass Communications 1 (Journalism: News Writing and Information Gathering)	
Mass Communications 7 (Introduction to Public Relations)	

Total units required for Certificate	16 units
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§ 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

❖ **OCCUPATIONAL SAFETY AND HEALTH**

CERTIFICATE OF ACHIEVEMENT—OCCUPATIONAL SAFETY AND HEALTH§

CHANGE: §CERTIFICATE IS NOW FULLY APPROVED

Occupational Safety and Health 50 (Introduction to Occupational Safety and Health)	3 units
Occupational Safety and Health 60 (Elements of Industrial Hygiene)	3 units
Occupational Safety and Health 62 (Physical Hazards)	3 units
Occupational Safety and Health 67 (Comprehensive Regulatory Requirements and Human Factors)	3 units
Electives*	3-4 units

Select from the following for a minimum of 3 units:

- Chemistry 30A (Introductory and Applied Chemistry) or equivalent
- Fire Service Technology 52 (Fire Fighter Safety and Public Education)
- Physics 10 (Descriptive Physics) or equivalent
- Radiation Safety 40ABC (Radiation Safety)

Total units required for certificate	15-16 units
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❖ **PHARMACY TECHNOLOGY**
CERTIFICATE OF ACHIEVEMENT

CHANGE: CORRECTION OF ELECTIVES AND CERTIFICATE UNIT VALUE;
CERTIFICATE IS FULLY APPROVED

Pharmacy Technology 50 (Introduction to Pharmacy Technology)	4 units
Pharmacy Technology 51 (Advanced Pharmacy Operations)	4 units
Pharmacy Technology 52 (Pharmacology I)	4 units
Pharmacy Technology 53 (Pharmacology II)	4 units
Pharmacy Technology 54 (Pharmacy Technician Clinical Practice)	2 units
Electives: <i>Select from the following for a minimum of 2-4 units</i>	2-4 units
Biology 50	
Computer Information Systems 8	
Health Science 52	
 Total units required for certificate	<hr/> 20-22 units

COURSES

Courses are listed on pages 23 through 44 in order by discipline rubric (alpha) and number.

BIOLOGY (BIOL)

BIOL 10—INTRODUCTION TO THE SCIENCE OF BIOLOGY—4 units

CHANGE: COURSE REVISION; CHANGE TO CATALOG DESCRIPTION

Basic principles of biology, dealing with the nature of living things, and the nature of scientific investigation and its bioethical impact in our modern world. Designed for non-majors in biology and biomedical sciences. 3 hours lecture, 3 hours laboratory.

AA/AS GE. Transfer: CSU, UC*; CSU GE: B2, B3; IGETC: 5B & Lab.

*BIOL 10 and 31 combined: max UC credit, one course

Degree Applicable, Credit Grading Option: OP

BUSINESS (BUSN)

BUSN 20 — INTERNATIONAL BUSINESS — 3 units

CHANGE: COURSE REVISION; ADDITION OF ADVISORY

Exploration of major factors involved in developing international trade. An overview of foreign market analysis, international law and ethics, financial environment, manufacturing, physical distribution, and state and federal resources available to facilitate importing and exporting. Strongly recommended: Business 40 and English 1A. 3 hours lecture.

Transfer: CSU

Degree Applicable, Credit Grading Option: OP

BUSN 51B--GENERAL ACCOUNTING II—3 units

CHANGE: COURSE INACTIVE BEGINNING FALL 2010

BUSN 63 — PAYROLL ACCOUNTING I — 2 units

CHANGE: NEW COURSE

Learn about Payroll Accounting System based on state and federal payroll tax laws. Concepts covered include: Fair Labor Standards Act, employee and employer payroll tax deductions, payroll recordkeeping requirements, personnel records, unemployment tax acts, computing gross and net salaries, reading time cards, computing regular and overtime wage rates for hourly and salaried employees. Filing payroll tax returns and computing various payroll taxes including: Social Security tax, federal income tax, state income tax, federal unemployment tax, state unemployment tax and voluntary withholdings. 2 hours lecture.

Transfer: CSU

Degree Applicable, Credit Grading Option: OP

CHEMISTRY (CHEM)

CHEM 1A — GENERAL COLLEGE CHEMISTRY I — 5 units

CHANGE: COURSE TITLE CHANGED

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. Prerequisites: Mathematics 55 or 55B or 55Y; Chemistry 31 (all courses completed with a grade of "C" or higher) or appropriate skill level demonstrated through the Chemistry Placement Process. 3 hours lecture, 6 hours laboratory.

AA/AS GE. Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A & Lab. *CHEM 1A and 30A combined: max UC credit; one course

Degree Applicable, Credit Grading Option: GR

CHEM 1B — GENERAL COLLEGE CHEMISTRY II — 5 units

CHANGE: COURSE TITLE CHANGED

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: Chemistry 1A (completed with grade of "C" or higher). 3 hours lecture, 6 hours laboratory.

Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A & Lab

*CHEM 1B and 30B combined: max UC credit; one course

Degree Applicable, Credit Grading Option: GR

CHEM 12A — ORGANIC CHEMISTRY I — 5 units

CHANGE: COURSE TITLE CHANGED

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 yearlong course in organic chemistry designed for students majoring in chemistry and related disciplines. Prerequisite: Chemistry 1B (completed with a grade of "C" or higher). 3 hours lecture, 6 hours laboratory.

Transfer: CSU, UC; CSU GE: B1, B3; IGETC: 5A & Lab

Degree Applicable, Credit Grading Option: GR

CHEM 12B — ORGANIC CHEMISTRY II — 5 units

CHANGE: COURSE TITLE CHANGED

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: Chemistry 12A (completed with a grade of "C" or higher). 3 hours lecture, 6 hours laboratory.

Transfer: CSU, UC; CSU GE: B1, B3; IGETC: 5A & Lab

Degree Applicable, Credit Grading Option: GR

CHEM 30A — INTRODUCTORY AND APPLIED CHEMISTRY I — 4 units

CHANGE: COURSE TITLE CHANGED

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: Mathematics 65 or 65B or 65Y (completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory.

AA/AS GE. Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A & Lab. *CHEM 1A and 30A combined: max UC credit; one course
Degree Applicable, Credit Grading Option: GR

CHEM 30B — INTRODUCTORY AND APPLIED CHEMISTRY II — 4 units

CHANGE: COURSE TITLE CHANGED

Continuation of Chemistry 30A with emphasis on organic and biochemical concepts related to human physiological systems. Prerequisite: Chemistry 30A (completed with a grade of "C" or better). 3 hours lecture, 3 hours laboratory.

Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A & Lab. *CHEM 1B and 30B combined: max UC credit; one course
Degree Applicable, Credit Grading Option: GR

CHEM 31 — INTRODUCTION TO COLLEGE CHEMISTRY — 4 units

CHANGE: COURSE TITLE CHANGED

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: Mathematics 55 or 55B or 55Y (completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory.

AA/AS GE. Transfer: CSU, UC*; CSU GE: B1, B3; IGETC: 5A & Lab. "No UC credit if taken after CHEM 1A or 30A
Degree Applicable, Credit Grading Option: GR

COMPUTER INFORMATION SYSTEMS (CIS)

CIS 55C — MICROSOFT OFFICE: WHAT'S NEW — 2 units

CHANGE: NEW COURSE

Explore the new features, enhancements, and added functionality of the latest version of Microsoft Office! Students already familiar with Word, Excel, PowerPoint, and Access applications, will explore the differences, new functionality and new features of the newest release of Word, Excel, PowerPoint, Access, and supporting Office applications. Strongly recommended: Computer Information Systems 55. 1.5 hours lecture, 1.5 hours laboratory. (May be taken 3 times)

Transfer: CSU
Degree Applicable, Credit Grading Option: OP

CIS 55D—OFFICE WEB APPS, COLLABORATION, CLOUD COMPUTING—2 units

CHANGE: NEW COURSE

Over the Internet; create browser-based Office documents (word documents, spreadsheets, presentations, forms), securely save and share Office documents, and collaborate online with colleagues. Explore Google Docs, Windows Web Apps, and other online collaboration tools. Strongly recommended: Computer Information System 55. 1.5 hours lecture, 1.5 hours laboratory. (May be taken 4 times)

Transfer: CSU
Degree Applicable, Credit Grading Option: GR

CIS 65 — INTRODUCTION TO DESKTOP OPERATING SYSTEMS — 2 units

CHANGE: COURSE REVISION; CHANGE OF CATALOG DESCRIPTION

By performing numerous hands-on labs, students in this class will gain an understanding of desktop operating systems using command line and GUI interfaces, such as Windows XP, 2003, 2008, Win7, UNIX/Linux, Apple, and other emerging operating systems. including online web-based desktops and cloud computing. Students will use virtualization software VMware, MS VirtualPC, or Sun VirtualBox to install and configure operating systems and user applications on a microcomputer system. Students will also experiment with online desktops-like AjaxWindows, Schmedley, Glide, Google Docs, eyeOS. Operating systems for cell phones (Google Android Chrome OS, iPhone) will be demonstrated. The role of hardware, application software and the operating system and how they interact with each other will be explored. Students who have completed or are enrolled in Computer Networking Technology 50 may not receive credit. Strongly recommended: Computer Information Systems 50. 2 hours lecture, 1 hour laboratory

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 71A — KEYBOARDING (THE ALPHABET) — 1 unit

CHANGE: COURSE REVISION; CHANGE OF CATALOG DESCRIPTION

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. 3 hours laboratory. (May be taken 3 times)

CIS 71B — KEYBOARD (NUMBERS AND SYMBOLS) — 1 unit

CHANGE: COURSE REVISION; CHANGE OF CATALOG DESCRIPTION

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. 3 hours laboratory. (May be taken 3 times)

Degree Applicable, Credit

Grading Option: OP

CIS 71C—SKILLS IMPROVEMENT—1 unit

CHANGE: COURSE REVISION; CHANGE OF CATALOG DESCRIPTION

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: Computer Information Systems 71B. 3 hours laboratory. (May be taken 3 times)

Degree Applicable, Credit

Grading Option: OP

CIS 71D—SKILLS DEVELOPMENT—1 unit

CHANGE: COURSE INACTIVE BEGINNING FALL 2010

CIS 71E--SPEED AND ACCURACY IMPROVEMENT—1 unit

CHANGE: COURSE INACTIVE BEGINNING FALL 2010

CIS 72A— DATA MANAGEMENT—1 unit

CHANGE: COURSE REVISION; CHANGE OF CATALOG DESCRIPTION

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. 3 hours laboratory. (May be taken 2 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 72B - SPREADSHEET INTEGRATION WITH WORD PROCESSING—1 unit

CHANGE: COURSE REVISION; CHANGE OF CATALOG DESCRIPTION

Basic usage of spreadsheet software in document reporting and presentation. Integration of spreadsheets with Word, PowerPoint, and Access. Strongly Recommended: Computer Information Systems 50 and Computer Information Systems 88A. 3 hours laboratory. (May be taken 2 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 73A—TEN-KEY SKILL DEVELOPMENT--1 unit

CHANGE: COURSE INACTIVE BEGINNING FALL 2010

Skill development on the computer numeric keypad and electronic calculator including use of memory functions, and data entry using spreadsheets. 3 hours laboratory (May be taken 2 times)

Degree Applicable, Credit

Grading Option: OP

CIS 86—OVERCOMING COMPUTER ANXIETY—1 unit

CHANGE: COURSE INACTIVE BEGINNING FALL 2010

CIS 88A—INTRODUCTION TO MICROSOFT WORD—1.5 units

CHANGE: COURSE REVISION; CHANGE OF CATALOG DESCRIPTION

Develop the skills needed in the workplace to produce common business documents. 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, and printing documents. Strongly recommended: Computer Information Systems 71A. 1 lecture hour; 1.5 laboratory hours. (May be taken 3 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 88B—ADVANCED MICROSOFT WORD—1.5 units

CHANGE: COURSE REVISION; CHANGE OF CATALOG DESCRIPTION

Advanced word processing techniques used to produce complex business documents. Includes topics such as integrating graphics and shapes into documents, formatting multiple page reports, creating tables of contents and indexes, inserting footnotes/endnotes and bibliographies, creating and using macros, and form templates, and integration with other programs such as Excel. Strongly recommended: Computer Information Systems 88A. 1 lecture, 1.5 laboratory. (May be taken 2 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 89B — DESKTOP PUBLISHING—1.5 units

CHANGE: COURSE REVISION; CHANGE OF CATALOG DESCRIPTION

Design professional and customized business cards, letterheads, envelopes, mailing labels, and brochures quickly and easily using Microsoft Publisher. 1 hour lecture, 1.5 hours laboratory.
(May be taken 2 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 90.01 [9001]—DATABASE MANAGEMENT SYSTEMS—2 units

CHANGE: NEW COURSE

This course provides students with a vendor-neutral introduction to and an overview of database systems including database design, Entity Relationship data modeling, the relational model, optimizing databases through normalization, data administration and SQL. Application of knowledge with hands-on experience with a database management system. 2 hours lecture.
(May be taken 2 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 90.02 [9002]—ORACLE: DATABASE DESIGN AND SQL PROGRAMMING—3 units

CHANGE: NEW COURSE

In Database Design, students learn to analyze business scenarios and create data models, a conceptual representation of an organization's information. In Database Programming with SQL, students implement their database design by creating a physical database using Oracle Structured Query Language (SQL) to create, query, manipulate, and control access to the data in a relational database. The SQL commands, functions, and operators supported by Oracle as extensions to standard SQL are emphasized. Students learn to create and maintain database objects such as tables, indexes, views, constraints, and sequences. Prepare students for the Oracle Certified Professional (OCP) exam. Strongly recommended: Computer Information System 57. 2.5 hours lecture, 1.5 hours laboratory. (May be taken 2 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 90.03 [9003]—ORACLE: DATABASE PROGRAMMING WITH PL/SQL — 3 units

CHANGE: NEW COURSE

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: Computer Information System 9002. 2.5 hours lecture, 1.5 hours laboratory. (May be taken 2 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 90.04 [9004]—ORACLE: DATABASE ADMINISTRATION—3 units

CHANGE: NEW COURSE

This course is designed to give students a firm foundation in basic administration of Oracle latest Database. In this class, students learn how to install and maintain Oracle Database. Gain a conceptual understanding of the Oracle database architecture and how its components work and interact with one another. Learn to create an operational database and properly manage the various structures in an effective and efficient manner including performance monitoring, database security, user management, and backup/recovery techniques. The lesson topics are reinforced with structured hands-on practices. 2.5 hours lecture, 1.5 hours laboratory. (May be taken 2 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 90.10 [9010]—WRITING SQL QUERIES USING MICROSOFT SQL SERVER—2 units

CHANGE: NEW COURSE

Introduction to how client/server architecture works, and examines the various database and business tasks that can be performed by using the components of Microsoft SQL Server. Learn SQL Server database concepts such as relational databases, normalization, and database objects. In addition, the student will learn how to use T-SQL to query databases and generate reports. 1.5 hours lecture, 1.5 hours laboratory. (May be taken 2 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 91.01 [9101]—INTERNET BUSINESS FUNDAMENTALS — 1.5 units

CHANGE: NEW COURSE

Internet Business Fundamentals prepares students to work effectively in today's business environment using the Internet's wide array of useful resources. Learn about the tasks involved in various Web Technology job roles and the skills and technologies to perform them. Review Internet connection methods, protocols, the domain name system, and cloud computing. Study functions of Web browsers, the components of Web addresses, the use and control of cookies. Configure browser preferences, plug-ins. Study databases as they relate to Web search engines, and use search engines to conduct basic and advanced Web searches. Configure e-mail clients and use e-mail for communicating effectively over the Internet using modern Web technologies and social networking and collaboration tools. Learn about the risks associated with being connected to the Internet, and about the security measures that can keep your computer system and your personal information secure. NOTE: This course is one of a series in the Certified Internet Web Professional (CIW: www.ciwcertified.com) program. 1 hour lecture, 1.5 hours laboratory. (May be taken 3 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 91.02 [9102] — NETWORK TECHNOLOGY FOUNDATIONS — 1.5 units

CHANGE: NEW COURSE

Network Technology Foundations is an accelerated networking course designed to teach essential networking concepts, skills, and practices. Identify various network components and protocols that enable users to share data. Explore different types of transmission media, and how network architecture and topologies provide for efficient and secure communication. Review the OSI reference model and its relationship to packet creation, and compare and contrast the OSI model with the Internet architecture model. Study the functions and features of internetworking server types, and the benefits of implementing a Content Management

System (CMS). Learn about the importance of routing, and explore IP addressing, IP address classes and subnet masks. Review essential network security concepts, Internet-based challenges facing today's users, and methods you can use to secure networks and network transmissions, including authentication, encryption and firewalls. This course is one of a series in the Certified Internet Web Professional (CIW: www.ciwcertified.com) program. 1 hour lecture, 1.5 hours laboratory. (May be taken 3 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 91.03 [9103]—WEB SITE DEVELOPMENT FOUNDATIONS — 2 units

CHANGE: NEW COURSE

Web Site Development Foundations is teaches essential Web page development skills and how to work as a productive part of a Web site development team. Develop Web sites using HTML/XHTML; write source code manually and using graphical user interface (GUI) authoring tools. Insert images, hyperlinks, tables, forms, frames, using style sheets to format Web page content, and implement fundamental design concepts. Validate your XHTML code, recognizing the importance of Internet marketing and search engine optimization. Connect Web pages to databases, identify e-commerce solutions, and how link Web site development to business goals. Throughout the course, students will learn how sites are developed as managed projects. This course is one of a series in the Certified Internet Web Professional (CIW: www.ciwcertified.com) program. 2 hours lecture. (May be taken 3 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 91.04 [9104]—WEB DESIGN SPECIALIST — 3.0 units

CHANGE: NEW COURSE

Design and publish Web sites using popular production tools such as Dreamweaver, Flash, Expressions, HTML/XHTML. General topics include Web Site Development Essentials (site development process, customer expectations, ethical and legal issues), Web Design Elements (aesthetics, user's experience, navigation, usability, accessibility), Basic Web Technologies (HTML/XHTML, image files, GUI site development applications, site publishing and maintenance) and Advanced Web Technologies (multimedia and plug-in technologies, client-side and server-side technologies, and Web databases). In this course, you will work with popular production tools such as Microsoft Expression, Adobe Dreamweaver and Flash. Study design and development technologies such as Cascading Style Sheets (CSS), Extensible Markup Language (XML), JavaScript, Java applets, Dynamic HTML, plug-ins, multimedia and databases. Learn how Web sites are developed as managed projects, relate Web site development to business goals, and apply guidelines for user accessibility to Web site development. Consider site design from several perspectives; design from the Web user's perspective so that you can identify with user interests and needs. You will also assume the roles of Web designer and project manager, as you work through the Web site development process by evolving a Web presence site into a working prototype Web project. This course is one of a series in the Certified Internet Web Professional (CIW: www.ciwcertified.com) program. Strongly recommended: Computer Information System 59A. 2.5 hours lecture, 1.5 hours laboratory. (May be taken 3 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 91.05 [9105]—ECOMMERCE WEB TECHNOLOGY—2 units

CHANGE: NEW COURSE

E-Commerce strategies and practices show how to conduct business online and manage the technical issues associated with constructing an e-commerce Web site. Learn the similarities and differences between traditional and electronic commerce, and will explore e-commerce technologies at various levels of sophistication. This course is one of a series in the Certified Internet Web Professional (CIW: www.ciwcertified.com) program. Strongly recommended: Computer Information Systems 59A. 1.5 hours lecture, 1.5 hours laboratory. (May be taken 3 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CIS 94 — COMPUTER SKILLS FOR THE WORKPLACE--2 units

CHANGE: NEW COURSE

Fundamental computer competency course designed to develop the basic computer skills and knowledge required in today's business environment. Basic computer competency is no longer a nicety, but a necessity. Topics include; essentials of computing, hardware and software concepts, the Internet, ethical issues, and information protection. Practical hands-on applications will introduce students to the fundamentals of word processing, spreadsheets, presentation software, database, and email communication and basic keyboarding techniques for accuracy and speed. Use of technology to identify, gather, and analyze information and for communication, and understanding the legal, ethical and societal implications of technology. No previous experience with computers is required. 1 hour lecture, 3 hour laboratory. (May be taken 3 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

COMPUTING NETWORK TECHNOLOGY (CNT)**CNT 50 — INTRODUCTION TO DESKTOP OPERATING SYSTEMS — 2 units**

CHANGE: COURSE REVISION; CHANGE OF CATALOG DESCRIPTION

By performing numerous hands-on labs, students in this class will gain an understanding of desktop operating systems using command line and GUI interfaces, such as Windows XP, 2003, 2008, Win7, UNIX/Linux, Apple, and other emerging operating systems. including online web-based desktops and cloud computing. Students will use virtualization software VMware, MS VirtualPC, or Sun VirtualBox to install and configure operating systems and user applications on a microcomputer system. Students will also experiment with online desktops-like AjaxWindows, Schmedley, Glide, Google Docs, eyeOS. Operating systems for cell phones (Google Android Chrome OS, iPhone) will be demonstrated. The role of hardware, application software and the operating system and how they interact with each other will be explored. Students who have completed or are enrolled in Computer Information Systems 65 may not receive credit. Strongly recommended: Computer Information Systems 50. 2 hours lecture, 1 hour laboratory.

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CNT 51A—COMPTIA A+ ESSENTIALS CERTIFICATION—2 units

CHANGE: COURSE REVISION; CHANGE OF TITLE; CHANGE OF CATALOG DESCRIPTION

Designed to take students from the just-a-user level to the I-can-fix-it level for most common PC hardware issues. This class covers the objectives for the CompTIA A+ Essentials exam number 200-701: Hardware; Troubleshooting, Repair & Maintenance; Operating Systems & Software; Networking; Security; Operational Procedure. In addition, students learn communication skills and professionalism required of all entry-level IT professionals. Students will have the knowledge and skills required to identify hardware, peripheral networking, system problems and employ basic troubleshooting methodology, and practice proper safety procedures. Strongly recommended: Computer Networking Technology 50. 2 hours lecture, 1 hour laboratory. (May be taken 2 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CNT 51B—COMPTIA A+ PRACTICAL APPLICATION CERTIFICATION—2 units

CHANGE: COURSE REVISION; CHANGE OF TITLE; CHANGE OF CATALOG DESCRIPTION

This class covers the objectives for the CompTIA A+ Practical Application certification exam. This is the second of the two exams for the CompTIA A+ certification. It is an extension of the knowledge and skills identified in CompTIA A+ Essentials Certification, with more of a hands-on orientation focused on scenarios in which troubleshooting and tools must be applied to resolve problems. Students learn to install, configure, upgrade, and maintain PC workstations, the Windows OS and SOHO networks. Students utilize troubleshooting techniques and tools to effectively and efficiently resolve PC, OS, and network connectivity issues and implement security practices. Strongly recommended: Computer Networking Technology 51A. 2 hours lecture, 1 hour laboratory. (May be taken 2 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

CNT 54—WINDOWS CLIENT—MS NETWORKING CERTIFICATION — 3 units

CHANGE: COURSE REVISION; CHANGE OF TITLE; CHANGE OF CATALOG DESCRIPTION

In this class, students learn to install and configure the current Windows client workstation for a professional business network using virtualization and/or online using virtual labs. Students install applications and learn to configure laptop computers. Course content follows the Microsoft Official Academic course curriculum and is intended to prepare students to take the Microsoft client component of the Microsoft Certified IT Professional (MCITP), Microsoft Certified Technology Specialist (MCTS), or the Microsoft Certified Systems Engineer (MCSE) certification exam. Topics include creation of user and group accounts, group policies, administrating access to shared resources, configuration of hardware devices, monitoring of system resources, troubleshooting, and ensuring data integrity and security. Strongly Recommended: Computer Networking Technology 51B, and Computer Network Technology 52. 2.5 hours lecture, 1.5 hours laboratory. (May be taken 2 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

EARLY CHILDHOOD DEVELOPMENT (ECD)

ECD 51 (PRENATAL TO EARLY CHILDHOOD)

CHANGE: COURSE INACTIVE AT LPC BEGINNING FALL 2011; SEE ECD 56 and note following ECD 69.

ECD 55—THE PROFESSIONAL CAREGIVER—2 units

CHANGE: COURSE INACTIVE BEGINNING FALL 2011

ECD 56 – CHILD GROWTH AND DEVELOPMENT – 3 units

CHANGE: COURSE REVISION AND RENUMBERING (FORMERLY ECD 51*; see note following ECD 69)

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. 3 hours lecture.

AA/AS GE. Transfer: CSU, UC; CSU GE: D7; IGETC: 4G

Degree Applicable, Credit Grading Option: GR

ECD 69—CHILD STUDY: OBSERVATION AND ASSESSMENT—3 units

CHANGE: COURSE REVISION; NEW TITLE; NEW CATALOG DESCRIPTION

Current approaches for observing and recording the behavior of infants and young children using various scientific techniques. Effective observations that build on respecting and fostering all children's competence, striving for objectivity and individualizing programs to meet individual children's learning and developmental assessment. Direct observational experience and application of methods is required weekly. Prerequisite: Early Childhood Development 56* (completed with a grade of "C" or higher). 3 hours lecture.

Transfer: CSU

Degree Applicable, Credit Grading Option: GR

*NOTE: ECD 51 has been inactivated at Las Positas College beginning Fall 2011. ECD 56 has replaced it in degree and certificate requirements, but students who have rights to the College Catalog 2010-12 may fulfill their degree or certificate requirements with ECD 51.

ECD 80—ADVANCED TOPICS IN CHILDHOOD DEVELOPMENT—1-3 units

CHANGE: COURSE REVISION; NEW CATALOG DESCRIPTION

Development and presentation of advanced topics in Early Childhood Development.

Emphasis on creative arts, math, science, literacy, music and movement. Prerequisite: Early Childhood Development 63 (completed with a grade of "C" or higher). 1-3 hours lecture.

Transfer: CSU

Degree Applicable, Credit Grading Option: GR

ECD 100—SUPPORT FOR EARLY CHILDHOOD SUCCESS—1 unit

CHANGE: NEW COURSE

This is a one-semester course for students concurrently enrolled in one of four Early Childhood Development (ECD) core courses. The core courses include: ECD 50 Principles and Practice, ECD 51 Prenatal to Early Childhood, ECD 62 Child Family and Community, and ECD 63 Early Childhood Curriculum. The course is designed to assist both English Language Learning students and students needing Basic Skills for academic success including understanding ECD requirements, critical thinking, time management, team building and project management. 1 hour lecture. (May be taken 3 times)

Non-Degree Applicable, Credit Grading Option: P/N

EMERGENCY MEDICAL SERVICES (EMS)

EMS 61—EMERGENCY MEDICAL RESPONDER—3 units

CHANGE: COURSE REVISION; NEW TITLE; NEW COURSE DESCRIPTION

Development of knowledge and skills necessary for recognizing and caring for emergency situations, including cardiopulmonary resuscitation, prevention of disease transmission, and automated external defibrillation. Designed for first responders in an emergency. Successful completion of the knowledge, skills tests and with a successful completion of the course at 80% accumulative points and the summative final at (80%) qualifies for a American Safety and Health Institute(ASHI) "First Responder" Certificate and an American Heart Association "Basic Life Support Health Care Provider" Certificate. 2 hours lecture, 3 hours laboratory.

Transfer: CSU

Degree Applicable, Credit

Grading Option: GR

EMS 62 — BASIC MEDICAL TERMINOLOGY FOR ALLIED HEALTH — 3 units

CHANGE: RUBRIC CHANGE AND COURSE CROSSLISTING: HSCI 52 and EMS 62

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. Students who are currently enrolled in or have completed Health 52 or Health Science 52 may not receive credit. 3 hours lecture.

Transfer: CSU

Degree Applicable, Credit

Grading Option: GR

EMS 70A—COMMUNITY CARDIOPULMONARY RESUSCITATION— 0.5 unit

CHANGE: COURSE REVISION

Development of the knowledge, skills and personal judgment necessary to initiate and perform basic life support techniques in cardiopulmonary resuscitation (CPR). Designed for citizens in the community. Successful completion of the knowledge and skills test qualifies for American Red Cross Community (CPR) or American Heart Association Adult and Pediatric Heart Saver Certificate. 7 lecture hours total, 8 laboratory hours total. (May be taken 4 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: GR

EMS 70B—CARDIOPULMONARY RESUSCITATION FOR HEALTH CARE PROVIDER— 0.5 unit

CHANGE: COURSE REVISION

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 Red Cross Professional or an American Heart Association Basic Life Support Health Care Provider Certificate. Prerequisite: Emergency Medical Services 70A (completed with current-valid certificate issued or equivalent). 7 lecture hours total, 8 laboratory hours total. (May be taken 4 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: GR

EMS 81 – EMERGENCY MEDICAL TECHNICIAN – 6.5 units

CHANGE: COURSE REVISION

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: Emergency Medical Services 61 (completed with a grade of "B" or higher or current Emergency Medical Responder certification and Basic Life Support CPR Recognition with AED). 5 hours lecture, 4.5 hours laboratory.

Transfer: CSU

Degree Applicable, Credit

Grading Option: GR

EMS 91—EMERGENCY MEDICAL TECHNICIAN-REFRESHER —1.5 units

CHANGE: COURSE REVISION

Provide 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 District. Prerequisite: EMS 81 (completed with a grade of "C" or higher) or current EMT Certification with National Registry (EMT Certification not expired more than 2 years). 30 hours lecture. (May be taken 4 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: GR

ENGLISH (ENG)

ENG 1A —CRITICAL READING AND COMPOSITION—3 units

CHANGE: CHANGE OF PREREQUISITE

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. Prerequisite: English 100B or 102 or 104 with a "Pass"; ESL 25 with a "C" or better; equivalent course or appropriate skill level demonstrated through the English assessment process also acceptable. 3 lecture hours, 1 laboratory hour.

AA/AS GE. Transfer: CSU/UC; CSU GE: A2; IGETC: Area 1A

Degree Applicable, Credit

Grading Option: GR

ENG 19—LITERARY MAGAZINE —2-3 units

CHANGE: CORRECTION OF UNIT VALUE

Creation of a literary-style student magazine. Practical training in the managing, editing, formatting, and printing of a literary supplement and/or magazine. Enrollment constitutes the staff of the magazine. The number of laboratory units will be agreed upon and scheduled by instructor and student based on the student's job description and availability to participate. English 19 and/or Mass Communications 19 may be taken for a total of four times for credit.* 1 hour lecture, 3 or 6 hours laboratory. (May be taken 4 times*)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

FIRE SERVICE TECHNOLOGY (FST)

FST 86—WILDLAND FIREFIGHTER 1- BASIC—3 units

CHANGE: COURSE INACTIVE BEGINNING FALL 2011

FST 86A—CAL FIRE BASIC FIREFIGHTER (2010)—5 units

CHANGE: NEW COURSE

A basic structural and wildland firefighting course oriented toward entry-level employment in agencies responsible for Wildland Fire Mitigation and Interface I-Zone Fire Protection. Emphasis on equipment utilized on CAL FIRE Engines (formerly California Department of Forestry). Meets minimum requirements for seasonal employment with CAL Fire. Course emphasizes demonstration, student application and performance examinations. Fundamentals of wildland fire control and techniques of controlling other emergency incidents covered with a strong safety perspective. Various live fire exercises for application of fire control and suppression techniques. Provides for S130, S131 and S190 equivalency under National Wildfire Coordinating Group (NWCG). Students completing this course, the prerequisite courses, and the CAL Fire "Firefighter Basic Training" Taskbook course meet the 2010 CAL Fire 179 Hour "CAL FIRE Basic Firefighter" certification requirements. Course complies with the State Board of Fire Services Wildland Fire Fighting requirements for Structural Firefighter I Certification. Prerequisites: Fire Service Technology 50 and Fire Service Technology 65 and PE FSC and Emergency Medical Services 61 (all completed with a grade of "C" or higher). 3 hours lecture, 6 hours laboratory.

Transfer: CSU

Degree Applicable, Credit

Grading Option: GR

GENERAL STUDIES (GNST)**GNST 21—INTRODUCTION TO TEAM SELF-MANAGEMENT—2 units**

CHANGE: NEW COURSE

Explores the connections between one's purpose and intentions and one's behaviors, and develops the self-management skills to successfully attain one's goals. Prerequisite: General Studies 100 (completed with a grade of "C" or higher). 1 hour lecture, 3 hours laboratory.

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

HEALTH SCIENCE (HSCI)**HSCI 52—BASIC MEDICAL TERMINOLOGY FOR ALLIED HEALTH—3 units**

CHANGE: STATEMENT OF EXCLUSION (ITALICS)

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. Students who are currently enrolled or have received credit in Health 52 or Emergency Medical Services 62 may not receive credit. 3 hours lecture.

Transfer: CSU

Degree Applicable, Credit

Grading Option: GR

HORTICULTURE (HORT)**HORT 69—ADVANCED LANDSCAPE DESIGN—3 units**

CHANGE: COURSE INACTIVE BEGINNING FALL 2009

HORT 72—VITICULTURE FIELD MANAGEMENT AND PRACTICE—3 units

CHANGE: COURSE INACTIVE BEGINNING FALL 2009

HORT 80—FUNDAMENTALS OF HORTICULTURE—2 units

CHANGE: COURSE INACTIVE BEGINNING FALL 2009

HORT 81—HOME LANDSCAPE DESIGN—2 units

CHANGE: COURSE REVISION

Planning and design of residential landscape and garden areas. Considerations and techniques for designing outdoor areas around the home. Landscape planning techniques and concepts of design. Use area design, layout, plant selection, and drawing plans. 1.5 hours lecture and 1.5 hours laboratory.

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

HUMANITIES (HUMN)

HUMN 10—THE AMERICAN STYLE—3 units

CHANGE: CHANGE OF GRADING OPTION

Humanities of the United States. Major works of literature, painting, sculpture, architecture, film, music, philosophy, technology, religion and political and social institutions. Particular attention to values and meanings that reflect the American cultural experience. 3 hours lecture.

AA/AS GE

Transfer: CSU, UC; CSU GE: C2; IGETC: Area 3B

Degree Applicable, Credit

Grading Option: GR

HUMN 28—THE CLASSIC MYTHS—3 units

CHANGE: CHANGE OF GRADING OPTION

Introduction to mythic themes recurring in literature, the visual arts, and music; gods, humans, heroes; their origins, variation, historical development, and full expression in classical times and continued presence in the arts. 3 hours.

AA/AS GE

Transfer: CSU, UC; CSU GE: C2; IGETC: Area 3B

Degree Applicable, Credit

Grading Option: GR

HUMN 35—GREEK TRAGEDY—3 units

CHANGE: CHANGE OF GRADING OPTION

Selected tragedies of Aeschylus, Sophocles, and Euripides; particular attention given to values and meanings characteristic of aesthetic perception, philosophic content, and historic perspective; recovery and integration of these values as a humanistic approach to Greek tragedy. 3 hours.

AA/AS GE

Transfer: CSU, UC; CSU GE: C2; IGETC: Area 3B

Degree Applicable, Credit

Grading Option: GR

HUMN 44 —NARRATIVE FILM MUSIC—3 units

CHANGE: CHANGE OF GRADING OPTION

An examination of the function of music in cinema. A discovery of the contributions of classical, popular, and folk composers to the art of filmmaking and the influence of film music on the general culture of our time. 3 hours lecture.

AA/AS GE.

Transfer: CSU, UC; CSU GE: C2; IGETC: Area 3B

Degree Applicable, Credit Grading Option: GR

INTERIOR DESIGN (INTD)

INTD 62—KITCHEN AND BATHROOM DESIGN— 3 units

CHANGE: CHANGE OF ADVISORY

Survey of the field of kitchen and bathroom designs. Includes resources, materials, trends, costs and needs, both functional and aesthetic. Strongly Recommended: Interior Design 50 and Interior Design 51. 2 hours lecture, 3 hours laboratory.

Transfer: CSU

Degree Applicable, Credit Grading Option: OP

LEARNING SKILLS (LRNS)

LRNS 110—TRANSITION TO COLLEGE DISABILITY SERVICES AND PROGRAMS—0.5 units

CHANGE: NEW COURSE

This course is designed to promote the successful transition of students with disabilities to college. Students will be introduced to the overall cultural differences between high school and college as well as the specific demands of accessing support services in college. Emphasis will be placed on the identification of the legal basis for accommodations, the development of advocacy skills, and the identification of learning strategies. 9 hours total lecture. (May be taken 2 times)

Non-Degree Applicable, Credit Grading Option: P/N

MATHEMATICS (MATH)

MATH 34—CALCULUS FOR BUSINESS AND SOCIAL SCIENCES—5 units

CHANGE: COURSE REVISION; CHANGE OF FORMAT HOURS

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: Mathematics 55 or 55B or 55Y (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. 5 hours lecture, 1 hour laboratory.

AA/AS GE. Transfer: CSU, UC*; CSU GE: B4; IGETC: Area 2. *MATH 1, 2 and 33, 34 combined: max UC credit, one series.

Degree Applicable, Credit Grading Option: GR

MATH 57—Plane Geometry—3 units

CHANGE: INACTIVE BEGINNING FALL 2011

MATH 60—Math Study Skills—1 unit

CHANGE: INACTIVE BEGINNING FALL 2011

MATH 71A — APPLIED MATHEMATICS FOR TECHNICIANS A— 1.5 units

This course provides a survey of mathematical techniques used in the technical trades including: Arithmetic, both by-hand and with calculator; ratios, rates and proportions; metric and U.S. systems of measurement. There is an emphasis on practical applications related to a variety of technical fields throughout. 1.5 hours lecture.

AA/AS GE (if MATH 71A and 71B completed)

Degree Applicable, Credit Grading Option: OP

MATH 71B — APPLIED MATHEMATICS FOR TECHNICIANS B— 1.5 units

This course provides a survey of mathematical techniques used in the technical trades including: an introduction to linear equations; scientific notation; plane and solid geometry; and, triangle trigonometry. There is an emphasis on practical applications related to a variety of technical fields throughout. Prerequisite: Mathematics 71A or 71X (completed with a grade of "C" or higher). May not receive credit if Mathematics 71 or 71Y or INDT 74 have been completed. 1.5 hours lecture.

AA/AS GE (if MATH 71A and 71B completed)

Degree Applicable, Credit Grading Option: OP

MATH 100 — PRE-ALGEBRA AND ALGEBRA REVIEW — 1 unit

Review basic mathematics and algebra content prior to taking the assessment exam for placement into a mathematics course or as a refresher prior to taking a mathematics course after a significant amount of time has passed since taking the prerequisite course or assessment. The course will consist of small group lecture and/or independent study using a computer program to review and refine those concepts as needed by each student. 3 hours laboratory. Course may be taken 2 times for credit. Non-degree Applicable, Credit

Non-Degree Applicable, Credit Grading Option: P/N

MATH 107A—PRE-ALGEBRA A — 2 units

This course is intended to serve as a bridge between arithmetic and Elementary Algebra. It includes a review of concepts covered in the first half of Mathematics 107 Pre-Algebra, including: review of arithmetic, operations involving signed integers, fractions, variables and variable expressions, and simple linear equations. 1.5 hours lecture, 1.5 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/N

MATH 107B—PRE-ALGEBRA B—2 units

This course is intended to serve as a bridge between arithmetic and Elementary Algebra. It includes a review of concepts covered in the second half of Mathematics 107 Pre-Algebra, including: decimals, graphs of simple linear equations, percent and proportion, introduction to statistics, geometry and measurement, and application problems. Prerequisite: Mathematics 107A or 107X (completed with a grade of "C" or higher). May not receive credit if Mathematics 107 or 107Y has been completed. 1.5 hours lecture, 1.5 hours laboratory.

Non-Degree Applicable, Credit Grading Option: P/N

MASS COMMUNICATION (MSCM)

MSCM 32—RADIO PRODUCTION—3 units

CHANGE: COURSE REVISION

History, law, ethics, theory, and practical use of radio technology. Operations procedures and practices in a modern radio broadcast studio. Extended study of various aspects of radio production, including editing and announcing, producing studio-recordings, producing a news or feature interview story, producing pre-recorded newscasts, supporting station operations, preparing content for radio programming, publishing content online, selling ads, establishing a brand identity, producing news, collaborating with other media, creating and maintaining audio streams, podcasts, and direct feed, creating content for a multimedia website, and producing ad spots and promotional posts. 3 hours lecture. (May be taken 4 times)

AA/AS GE. Transfer: CSU

Degree Applicable, Credit

Grading Option: GR

MSCM 32L—RADIO PRODUCTION LAB—1-2 units

CHANGE: NEW COURSE

Procedures and practices in a modern radio broadcast studio. Extended study of various aspects of radio production, including editing and announcing, producing a live entertainment program, producing a live newsmagazine interview program, producing pre-recorded newscasts or feature interview story, managing station operations, preparing live radio programming, selling ads, establishing a brand identity, producing news, collaborating with other media, creating and maintaining audio streams, podcasts, and direct feed, creating content for a multimedia website, publishing recordings online and producing ad spots and promotional posts. The number of laboratory units will be agreed upon and scheduled by instructor and student based on the student's job description and availability to participate. 3 or 6 hours laboratory. (May be taken 4 times)

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

PHYSICAL EDUCATION (PE)

PE AWT – ADAPTED WEIGHT TRAINING— 0.5 – 2 units

CHANGE: NEW COURSE

An opportunity for students with disabilities to improve muscle strength and endurance through the correct application of sound training principles. This class is designed for students with limitations that are directly related to their verified physical or mental disability. Students must have a current clearance from their doctor to participate in this class. An individual exercise program will be developed by the instructor and student to meet the student's goals. 27-108 hours laboratory per semester. (May be taken 4 times for credit. Students with verified disability may petition to take this course for credit beyond the four times stated).

AA/AS GE. Transfer: CSU, UC*; CSU GE: Area E; *Max UC credit, 4 units of PE activity courses

Degree Applicable, Credit

Grading Option: OP

PE-DISC SPORTS—0.5 to 2 units

CHANGE: NEW COURSE

This introductory course will provide students with instruction on the various sport activities associated with the flying disc. The class contains units on basic throws and catches, along with instruction and participation in sports of: Double Disc Court, Disc Golf, Freestyle competition, and Ultimate. 1.5 to 6 hours.

AA/AS GE. Transfer: CSU, UC*; CSU GE: Area E; *Max UC credit, 4 units of PE activity courses

Degree Applicable, Credit Grading Option: OP

PE JDB – JAZZ DANCE BEGINNING - 0.5 – 2.0 units

CHANGE: NEW COURSE

Practice in basic jazz dance techniques and routines. 27 – 108 laboratory hours per semester.

AA/AS GE. Transfer: CSU, UC*; CSU GE: Area E; *Max UC credit, 4 units of PE activity courses

Degree Applicable, Credit Grading Option: OP

PE JDI – JAZZ DANCE INTERMEDIATE - 0.5 – 2.0 units

CHANGE: NEW COURSE

Practice in intermediate jazz dance techniques and routines. This course builds on the content introduced in the Jazz Dance Beginning. Strongly recommended: PE JDB – Jazz Dance Beginning. 27 – 108 laboratory hours per semester.

AA/AS GE. Transfer: CSU, UC*; CSU GE: Area E; *Max UC credit, 4 units of PE activity courses

Degree Applicable, Credit Grading Option: OP

PE LG — LIFEGUARDING — 1.5 units

CHANGE: NEW COURSE

This course is designed to provide the students with the knowledge and skills to prevent, recognize and respond to emergencies and to provide care for injuries and sudden illness until emergency medical services arrive and take over. Upon successful completion of the Lifeguarding course requirements and exams, students will earn American Red Cross certificates. The Lifeguarding/First Aid certificates are valid for three (3) years, and the CPR/AED portion is valid for one (1) year. The student must be 15 years of age on or before the final scheduled session of the course. Strongly recommended: Physical Education SWF (Swimming for Fitness) or Physical Education SWA (Advanced Swimming). 1 hour lecture, 1.5 hours laboratory.

AA/AS GE. Transfer: CSU; CSU GE: Area E

Degree Applicable, Credit Grading Option: OP

PE SWA—SWIMMING ADVANCED—2 units

CHANGE: NEW COURSE

This is an advanced course designed to enhance the overall knowledge and fitness for the advanced swimmer. The emphasis will be on training for competition (Intercollegiate, High School, Open Water, Triathlon, USA Swimming, and Recreational League). Instruction will also include refining the competitive strokes, starts, and turns. It is strongly recommended that students have completed PE SWBI or PE SWF. 6 hours laboratory. (May be taken 4 times)

AA/AS GE. Transfer: CSU; CSU GE: Area E

Degree Applicable, Credit Grading Option: OP

PE WP—WATER POLO—1 unit

CHANGE: NEW COURSE

This course is designed to give the student the opportunity to learn and practice the game of Water Polo. The focus of the class will be on individual and team skills relating to the play of Water Polo, rules and regulations, acceptable conduct, and fitness. Instruction will also include strategy and appreciation for competition. Strongly recommended: PE SWB or PE SWF or PE SWA. 3 hours laboratory. (May be taken 4 times)

AA/AS GE. Transfer: CSU; CSU GE: Area E;
Degree Applicable, Credit Grading Option: OP

PE 17 — INTRODUCTION TO ATHLETIC TRAINING — 3 units

CHANGE: COURSE REVISION

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. 2 hours lecture, 3 hours laboratory. (May be taken 3 times)

Transfer: CSU
Degree Applicable, Credit
Grading Option: OP

SPEECH (SPCH)

SPCH 48—ACTIVITIES IN FORENSICS—1-4 units

CHANGE: CORRECTION OF HOURS

Intercollegiate competition in the areas of public speaking and oral interpretation. Other activities include performance in workshops, festivals, concert reading and the community. 4-16 hours. (May be taken 4 times)

Transfer: CSU
Degree Applicable, Credit Grading Option: OP

THEATER ARTS (THEA)

THEA 39—MUSICAL THEATER WORKSHOP—3 units

CHANGE: CHANGE OF REPEATABILITY

Training in performance skills for the musical theater, with emphasis on acting and stage movement. Dual enrollment with Music 39. 3 hours lecture. (May be taken 4 times)

Transfer: CSU, UC
Degree Applicable, Credit Grading Option: GR

WORK EXPERIENCE (WRKX)

WRKX 95— WORK EXPERIENCE — 1-3 units

CHANGE: NEW RUBRIC; TRANSFERABILITY

Earn college credit while working. College supervised part-time or full-time employment. Through the cooperation of the work supervisor, students contract to accomplish new learning objectives and broaden their experiences at work. Corequisite: Work Experience 96. 5-15 hours of employment per week. (May be taken 4 times) Maximum units for all work experience courses, combined (95, 96 and 98) total of 16 units.

Transfer: CSU
Degree Applicable, Credit Grading Option: OP

WRKX 96 —WORK EXPERIENCE SEMINAR — 1 unit

CHANGE: RUBRIC CHANGE; TRANSFERABILITY

Earn college credit while working. Focal point for the coordination of college supervised part-time or full-time employment. With an emphasis on building strong working relationships with supervisors, subordinates and co-workers, seminar topics include: effective communication skills, career exploration, resume writing, job interviewing and case studies. Corequisite: Work Experience 95 (May be taken 4 times) Maximum units for all work experience courses, combined (95, 96 and 98) total of 16 units.

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

WELDING TECHNOLOGY (WLDT)**WLDT 79 — MANUFACTURING PROCESSES — 2 units**

CHANGE: NEW COURSE

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. 1.5 hours lecture, 1.5 hours laboratory.

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

WLDT 80 — THE WELDING BUSINESS — 2 units

CHANGE: NEW COURSE

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. A discussion of who the customer base is, how does the company locate work that fits their capability, 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. Basic definitions of business concepts such as accounting, labor laws, compliance, taxes, cash flow, payroll accounts receivable, accounts payable, balance sheet, as well as profit and loss as they relate to a welding business. 2 hours lecture.

Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

WOMEN'S STUDIES

WMST 1—INTRODUCTION TO WOMEN'S STUDIES—3 units

CHANGE: NEW COURSE

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. 3 hours lecture.

AA/AS GE. Transfer: CSU, UC; CSU GE: D4, D7; IGETC: 4D, 4G
Degree Applicable, Credit Grading Option: OP

WMST 2— GLOBAL PERSPECTIVE OF WOMEN—3 units

CHANGE: NEW COURSE

Examines the cultural, historical, political and economic experiences of women globally. Introduces feminist perspectives on a wide range of issues affecting women including globalization, war, education, work, family and religion in Asia, Africa, the Middle East and Latin America. 3 hours lecture.

AA/AS GE. Transfer: CSU, UC; CSU GE: D4, D7; IGETC: 4D, 4G
Degree Applicable, Credit Grading Option: OP

**LAS POSITAS COLLEGE GENERAL EDUCATION PATTERN FOR ASSOCIATE IN ARTS DEGREE
2011 – 2012 (Effective Fall 2011)**

USE THE BOXES ON THE RIGHT TO RECORD YOUR PROGRESS: N= NEED

IP=IN PROGRESS

C=COMPLETED

N

IP

C

LANGUAGE AND RATIONALITY

ENGLISH COMPOSITION Complete 1 course from below with a grade of 'C' or higher or 'P'

3 UNITS

English 1A, 3

WRITING AND CRITICAL THINKING Complete 1 course from below

3 UNITS

English 4, 7

COMMUNICATION AND ANALYTICAL THINKING Complete 1 course from below

3 UNITS

American Sign Language 1A, 1B
Business 52, 55
CIS 50, 80
Computer Science 1

Electronics Technology 50
Foreign Language 1A, 1B
Industrial Technology 74
Mass Communications 1, 32

Mathematics 1, 2, 3, 7, 10, 20, 33, 34, 38, 41,
42A, 44, 45, 55, 55A, 55B, 57, 65, 65B, 71
Speech 1, 2B, 10, 46
Theater Arts 3, 25

MATHEMATICS Proficiency in Mathematics may be met in one of the ways specified below

1. Demonstrate eligibility for **one level above intermediate algebra or higher** using multiple measures such as the LPC Placement Examination and previous course work; or
2. Submit documentation that a course equivalent to one of the mathematics courses listed below has been completed (with a grade of "C" or higher or "P") at another college/university; or
3. Complete one of the following courses (with a grade of "C" or higher or "P"):
Mathematics 1, 2, 3, 5, 7, 10, 20, 33, 34, 38, 41, 42A, 44, 45, 55, 55B, 57

NATURAL SCIENCES Complete 1 course from below

3 UNITS

** Meets either the Natural Sciences or Social and Behavioral Sciences requirement*

Anatomy 1
Anthropology 1L, 13*
Astronomy 1, 10, 20, 30
Biology 1, 5, 10, 20, 31, 50
Botany 1

Chemistry 1A, 30A, 31
Ecology 10
Environmental Studies 5
Geography 1*, 1L, 8, 15*
Geology 1, 1L, 3, 3L, 5, 7, 12, 12L

Microbiology 1
Physics 2A, 8A, 10, 10L
Physiology 1
Psychology 20*
Zoology 1

HUMANITIES Complete 1 course from below ** Meets Humanities and/or American Cultures requirement*

3 UNITS

American Sign Language 2A
Art History 1, 4, 5
Arts 2A, 3A, 10
English 11, 12, 13, 20, 32, 44*, 45
French 2A

History 1, 2
Humanities 3, 6, 7, 10, 28, 35, 44
Music 1, 4*, 5*, 12, 14, 43, 44, 45, 46A,
46B
Philosophy 1, 2, 3, 4, 5

Photography 67
Religious Studies 1, 2, 3, 11
Spanish 2A
Speech 2A, 5, 11*
Theater Arts 1A, 1B, 4*, 10, 12, 47, 48
Welding Technology 71

SOCIAL AND BEHAVIORAL SCIENCES Complete 1 course from below

3 UNITS

** Meets Social & Behavioral Sciences and/or American Cultures requirement*

*** Meets either Natural Sciences or Social & Behavioral Sciences requirement*

Anthropology 1, 2, 3, 4, 5*, 12, 13**
Business 30
Early Childhood Development 15, 52,
56, 62, 79*
Economics 1, 2, 5, 10

Geography 1**, 2, 5, 12, 15**
History 25, 28*, 32*
Mass Communications 5, 31
Political Science 7, 12*, 20, 25, 30

Psychology 1, 2, 3, 4, 6, 12, 13, 15, 20**
Psychology-Counseling 3*, 8*, 13*
Sociology 1, 3*, 4, 5, 11
Women's Studies 1*, 2

WELLNESS Complete 3 units from AREAS OF HEALTH and 1 unit from PHYSICAL EDUCATION*

4 UNITS

**Exemption is allowed for illness or physical disability by filing a physician's statement at the Admissions & Records Office. Students who hold an AA/AS Degree or higher are exempt. Wellness waived for Veterans with DD214 honorable discharge.*

Areas of Health: Health 1, 3, 55 (2 units); Nutrition 1; PE 30; Psysc 10

Physical Education*: 4, 31-48, 50, Dance 1; any PE activity course listed in the 2010-12 Catalog or 2011-12 Addendum

AMERICAN INSTITUTIONS (AI) Complete 1 course from below; *partially satisfies CSU AI requirement*

3 UNITS

History 7, 8, 25, 32

Political Science 7

AMERICAN CULTURES Complete 1 course from below with a grade of 'C' or higher or 'P'

Where appropriate, the course can simultaneously satisfy 1 other graduation or subject requirement

Anthropology 5
English 44
Early Childhood Development 79

History 14, 28, 32
Music 4, 5
Political Science 12
Psychology-Counseling 3, 8, 13

Sociology 3
Speech 11
Theater Arts 4
Women's Studies 1

LAS POSITAS COLLEGE ASSOCIATE IN ARTS DEGREE GRADUATION REQUIREMENTS

1. Minimum of 60 units with a cumulative grade point average of 2.0 or better (12 units must be completed at Las Positas College).
2. All requirements for the Major (minimum of 18 units) plus electives to total 60 units. All courses required for the Major must be completed with at least a 'C' or 'P.'
3. General Education Requirements for the Associate in Arts Degree listed above.

California State University General Education (GE) Breadth Requirements

Las Positas College 2011 - 2012 (Effective Fall 2011)

USE THE BOXES ON THE RIGHT TO RECORD YOUR PROGRESS: N= NEED IP=IN PROGRESS C=COMPLETED

N **IP** **C**

AREA A: ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING

Select at least **1 course** from each Group below, total **9 units** required; *must be completed with a grade of C or better.*

A1: Oral Communication Speech 1, 46

A2: Written Communication English 1A

A3: Critical Thinking English 4, 7 or Speech 46

AREA B: SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING

Select at least **1 course** from each Group listed below, minimum **9 units** required

B1: Physical Science

Astronomy 1, 10, 20, 30;
Chemistry 1A, 1B, 12A,
12B, 30A, 30B, 31;
Environmental Studies 5;
Geography 1, 1L, 8;
Geology 1, 1L, 3, 3L, 5, 7,
12, 12L;
Physics 2A, 2B, 8A, 8B,
8C, 8D, 10 10L

B2: Life Science

Anatomy 1;
Anthropology 1*, 1L;
Biology 1, 5, 10, 20, 31,
40, 50;
Botany 1; Ecology 10;
Microbiology 1;
Physiology 1;
Psychology 4*; Zoology 1
**Also listed in Area D but can only be used in one area.*

B3: Physical Or Life Science Laboratory

One of the courses selected from Group B1 or B2 must include a laboratory. Underlined courses are lab courses. Lab must be associated with the lecture course.

B4: Mathematics/Quantitative Reasoning

Select **1 course**; *must be completed with a grade of C or better.*

Mathematics 1, 2, 3, 5, 7, 10, 20, 33, 34, 38, 41, 42A, 42B, 44, 45

AREA C: ARTS AND HUMANITIES

Select **3 courses** from below, min **9 units**; at least **1 course from Arts, 1 course from Humanities, 1 from either**

C1: Arts Select at least **1 course** from below

Art History 1, 4, 5
Arts 2A, 3A, 10, 11
Music 1, 4, 5, 6, 8A, 8B, 12, 44, 45
Photography 67
Theater Arts 1A, 4, 5, 10, 11, 12, 14, 25, 40
Welding Technology 71

C2: Humanities Select at least **1 course** from below

American Sign Language 2A, 2B
English 3, 11, 12, 13, 20, 32, 44*, 45
French 2A, 2B
History 1*, 2*;
Humanities 3, 6, 10, 28, 35, 44
Philosophy 1, 2, 3, 4, 5
Religious Studies 1, 2, 3, 11
Spanish 2A, 2B
Speech 2A, 5
**Also listed in Area D but can only be used in one area.*

AREA D: SOCIAL SCIENCES

Select **3 courses** from below, minimum **9 units** from at least **2 different subjects** from groups **D1** through **D0**

D1: Anthropology and Archeology

Anthropology 1*, 2, 3, 4, 5, 12
**Also listed in Area B but can only be used in one area.*

D2: Economics

Economics 1, 2, 5, 10

D3: Ethnic Studies

Anthropology 5
Early Childhood Education 79
English 44*
History 14, 25, 28
Psychology-Counseling 13
Sociology 3
**Also listed in Area C but can only be used in one area.*

D4: Gender Studies

History 32; Sociology 11; Psychology 13;
Women's Studies 1, 2

D5: Geography

Geography 2, 5, 12, 15

D6 – History

History 1*, 2*, 7, 8, 14, 25, 28, 32
**Also listed in Area C but can only be used in one area*

D7: Interdisciplinary Social or Behavioral Science

Business 30
Early Childhood Development 52, 56, 62, 79
Marketing 50
Mass Communications 5, 31
Psychology-Counseling 3, 13
Sociology 5
Women's Studies 1, 2

D8: Political Science, Government & Legal Institutions

Political Science 7, 12, 20, 25, 30

D9: Psychology

Early Childhood Development 15***
Psychology 1, 2, 3, 4*, 6, 12**, 13, 15***, 20
Psychology-Counseling 3
Also listed in Area B but can only be used in 1 area
*** Also listed in Area E but can only be used in 1 area*
**** ECD 15 + Psych 15, maximum credit 3 units*

D0: Sociology and Criminology

Sociology 1, 3, 4, 6, 11

California State University General Education (GE) Breadth Requirements Las Positas College 2011 - 2012 (Effective Fall 2011)

USE THE BOXES ON THE RIGHT TO RECORD YOUR PROGRESS: N= NEED IP=IN PROGRESS C=COMPLETED	N	IP	C
AREA E: LIFELONG LEARNING AND SELF DEVELOPMENT Select 3 units from below Veterans with DD214 honorable discharge receive waiver for this area and 3 units toward CSU transfer.			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Early Childhood Development 54 Health 1, 2, 3 Health Science 55 Nutrition 1 Physical Education 24 Physical Education Activity* AAQE, AB, AQA, AQJD, ASA, AWT, BA, BC, BD, BK, BKL, BKP, BL, BRD, BX, CL, CP, CSVB, CW, DBS, DE, DRJ, DS, DT, FB, FC, FD, FFL, FL, FNB, FNI, FS, FSC, FW, GBW, GF, GSR, HHA, ID, JDB, JDI, JW, LDF, LDFI, LG, OF, PM, QFF, QYI, QYO, RC, SB, SC, SCF, SD, SI, SS, SWA, SWB, SWBI, SWF, SWL, TCC, TCT, TK, TN, TS, TT, TTT, UF, VB, WMB, WP, WT, WTW, YO, YOF, 50</p> </div> <div style="width: 45%;"> <p>Psychology 10, 12**, 24 Psychology-Counseling 7***, 10, 11 Sociology 7 Speech 10 <i>Limit 2 units.</i> <i>** Also listed in Area D but can only be used in one area.</i> <i>*** For Area E credit, course must be taken once for 3 units.</i></p> </div> </div>			
AMERICAN INSTITUTIONS REQUIREMENT: Complete 1 of the groups below Completion of the United States History, Constitution, and American Ideals Requirement is required for graduation from any CSU Campus. All CSUs will allow up to 6 of the units taken to meet this requirement to be credited toward satisfying the General Education Breadth Requirements in Area D.			
<p>GROUP 1 – History 7 + History 8 GROUP 2 – Political Science 7 + History 7, 8, 25, or 32</p>			

PLEASE NOTE THE FOLLOWING:

1. For a course to meet a CSU GE requirement, the course must be on the CSU GE list during the academic year it is taken.
2. The CSU GE Breadth pattern is not an admission requirement. If appropriate for the major, students may complete the minimum eligibility requirements for CSU – see a counselor for details and advisement.
3. Advanced Placement (AP) exams with passing scores may be applied to the CSU GE pattern. For details, see the AP chart in the Catalog.
4. Request a CSU GE certification in the Admissions & Records Office at the end of the last semester before transferring. The certification is the process by which the community college verifies that a student has completed all the required coursework for the CSU GE pattern (partial completion is possible), which is sent directly to the transfer institution. If CSU GE is not certified, students may be subject to the lower-division GE requirements of the campus to which they transfer.

FAQS Intersegmental General Education Transfer Curriculum (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 (check with 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 What alternatives to IGETC exist?

A Community college students who are CSU-bound have the option of completing the CSU General Education Breadth requirements. Students who are UC-bound have the option of completing the general education requirements of the destination UC campus or the minimum UC transfer admission requirements as listed on ASSIST.org > select Las Positas College and UC Transfer Admission Eligibility Courses.

Q Is it advisable for all transfer students to follow IGETC?

A NO. Not all majors should follow IGETC. Students pursuing majors that require extensive lower-division major preparation (i.e. Engineering) may not find IGETC advantageous, and the transfer institution may advise following the minimum UC eligibility requirements listed on ASSIST.org > select Las Positas College and UC Transfer Admission Eligibility Courses.

Q What are the minimum UC Transfer Eligibility Requirements for junior-level transfer students?

A Minimum Admission Requirements:

- 60 UC transferable units
- 2.4 cumulative GPA (impacted campuses and majors may require higher GPAs)
- No more than 14 semester units taken Pass/Not Pass (P/NP)
- 7 UC transferable GE courses as follows:
 - 2 courses in English composition (ENG 1A AND ENG 3, 4, or 7)
 - 1 course in Mathematical Concepts and Quantitative Reasoning (IGETC Area 2)
 - 4 courses chosen from at least 2 of these subject areas (see IGETC for approved courses):
 - Arts and Humanities
 - Social and Behavioral Sciences
 - Physical and Biological Sciences

Q Will all UC and CSU campuses accept IGETC?

A UC San Diego's Eleanor Roosevelt and Revelle Colleges and UC Berkeley's Haas School of Business will NOT accept IGETC.

Q Can I use Advanced Placement (AP) exams for IGETC?

A YES. AP exams may be applied to IGETC with passing scores. For details, see the AP Chart in the LPC Catalog.

Q What is "IGETC Certification" and how do I request it?

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