Lassen Community College
2026-2027 Catalog Addendum

This addendum contains updates to the 2025-2026 College Catalog. The information below replaces or supplements the information presented in the published catalog.

I. New Courses/Course Additions

CA 150 - Computer Skills for Senior Adults
0.0 unit
12 hours lecture
This course is designed to provide senior adults with an opportunity to familiarize themselves with various computer technologies. Subjects will include, but not be limited to, the Windows operating system, Windows and Google applications spreadsheets, the Internet, and E-mail. Students will also learn the basics of being safe online and how to spot different scams or other fraudulent online material. While the course is open to all ages and levels of expertise, it is geared toward the older adult who has little to no previous experience with the computer.
This course may be taken for a total of five enrollments.
This course uses an OER resource.

BIOL 1 Principles of Molecular and Cellular Biology
4.0 Units
51 hours lecture, 51 hours lab
A course in principles of biology, with special emphasis given to molecular and cellular biology. Topics include the chemical basis of life, prokaryotic and eukaryotic cells, structure and function, cell metabolism, cellular communication, classical genetics, molecular genetics, and biotechnology. This course is designed to meet the core requirements for biology and related majors. (This course is the recommended preparation for Bio 4, Biol 20, and Biol 25.)
This course has been approved for hybrid (online/traditional) delivery.

II. Revised Courses

ANTH 1L - Biological Anthropology Lab
1.0 units
CSU/UC
General Education Area 5
Cal-GETC Area 5C
C-ID ANTH 115L
Pre or Corequisite: Concurrent enrollment in ANTH-1 (C-ID ANTH 110); or ANTH-1 Passed in a subsequent term
Recommended Preparation: Prepared to enter Biological Anthropology Lab through multiple measures.
51 hours lab
This laboratory course is offered as an optional supplement to Introduction to Biological Anthropology either taken concurrently or in a subsequent term. Laboratory exercises are designed to introduce students to the scientific method and explore genetics, human variation, bio-cultural adaptations, human and non-human primate anatomy and behavior, the primate/hominin fossil record, and other resources to investigate processes that affect human evolution. This course has been approved for correspondence, hybrid and online delivery.

ART 1A - Two-Dimensional Design
3.0 units
CSU/UC
General Education Area 3
C-ID ARTS 100
Recommended Preparation: ENGL105 or equivalent multiple measures placement.
25.5 hours lecture/76.5 hours lab
An introductory studio design course based on communicating visually through practical applications of design and composition including line, shape, form, texture, value, color, and spatial illusion in two dimensions. Traditional mediums and digital imaging using industry standard Adobe Creative Cloud software will be emphasized. Graphic design, commercial art, and fine art principles will be explored from historical, aesthetic and cultural points of view. This course has been approved for hybrid and online delivery. To cover the costs of printing each project assignment, a $10.00 lab fee will be charged at the time of registration. Students must provide additional materials and supplies at an estimated cost of $25.

ART 1B - Three-Dimensional Design
3.0 units
CSU/UC
General Education Area 3
C-ID ARTS 101
Recommended Preparation: ART 1A ENGL105 or equivalent multiple measures placement.
25.5 hours lecture/76.5 hours lab
An introductory (no previous art experience required) studio design course based on communicating visually through practical applications of design, color, spatial relationships and imagery in three dimensions. This class will introduce students to computer design methods and basic computer design Software. Assignments will rely on student access to a computer and basic computer proficiency will be expected. Traditional construction methods and mediums plus digital imaging using industry standard computer software will be emphasized. Graphic design, commercial art and fine art principles will be explored from historical, aesthetic and cultural points of view. This course has been approved for hybrid, and online delivery. To cover materials cost including printing, a $10.00 lab fee will be charged at the time of registration.

ART 2 - Drawing
3.0 units
CSU/UC
General Education Area 3
C-ID ARTS 110
Recommended Preparation: ENGL105 or equivalent multiple measures placement.
25.5 hours lecture/76.5 hours lab
An introductory (no previous art experience necessary) drawing class using a variety of drawing materials to portray a variety of subjects. Realism will be emphasized, but other methods such as Cubism and Non-Representationalism will be explored, and students will be encouraged to develop their own style. The elements and principles of drawing will be presented from historical, cultural, aesthetic and technical points of view. This course has been approved for hybrid, online and correspondence delivery. To cover

the costs of printing, a $10.00 lab fee will be charged at the time of registration.

BIOL 20 - Microbiology
5.0 units
CSU/UC
General Education Area 5
Cal-GETC Areas 5B & 5C
Recommended Preparation: Biology 1
51 hours lecture/102 hours lab
This is an introductory course covering the biology (morphology, anatomy, physiology, classification, identification and development) of micro-organisms (viruses, protozoa, parasitic worms, algae, fungi, with emphasis on bacteria), their significance and their role in human affairs. This course has been approved for online and hybrid delivery.

BIOL 21 - Human Anatomy with Lab
4.0 units
CSU/UC (Unit limitation)
General Education Area 5
Cal-GETC Areas 5B & 5C
C-ID BIOL 110B
Recommended Preparation: Prepared to enter Introduction to Academic Reading, Writing, and Critical Thinking or equivalent through multiple measures. Prepared to enter Intermediate Algebra or equivalent through multiple measures. Prepared to enter General Biology and General Chemistry through multiple measures.
51 hours lecture/51 hours lab
One semester of a two-semester sequence covering structure and function, integration and homeostasis of the human body at the cellular, tissue organ, organ system and organism level. This semester includes the structures of the integumentary, skeletal, muscular, nervous and sensory systems, cardiovascular, lymphatic, immune, respiratory, urinary, digestive, endocrine and reproductive systems. This course has been approved for hybrid delivery.

CD 11 - Observation and Assessment
3.0 units
CSU
C-ID ECE 200
Recommended Preparation: ENGL105 or equivalent multiple measures placement.
34 hours lecture/51 hours lab
This course focuses on the appropriate use of assessment and observation strategies to document development, growth, play, and learning in order to join with families and professionals in promoting children's success and maintaining quality programs. Recording strategies, rating scales, portfolio, and multiple assessment methods are explored. This course has been approved for online and hybrid delivery.

CD 49 - Child Development Work Experience
1.0-14.0 units
CSU
General Education Area E1
Recommended Preparation: ENGL105 or equivalent multiple measures placement.
714 hours lab (R)
This course involves student employment or internship providing meaningful work experiences related to the child development course of study, combined with instruction in critical workplace skills. Work experience education may include paid or unpaid employment, full or part-time employment with a licensed business. Work Experience supports student educational and occupational goals, including developing career awareness, learning industry culture, and developing professional networks in career fields. All Work Experience enrollments require attendance of an orientation session. Instruction is also provided through course modules, work-based learning with a participating supervisor, and meetings in office or at the student worksite. Instruction focuses on goal setting to develop job-specific skills, enhancement of soft skills in the workplace, and career development. Subsequent enrollments require new individualized learning objectives. Units are awarded based upon achievement of approved learning objectives, workplace performance, submission of course assignments, and documentation of work hours. Enrollment in Work Experience courses is limited to a maximum of 14 units per enrollment. Students earn 1 unit of credit for each 51 hours of paid or volunteer work. This course has been approved for Hybrid delivery.

CIS 90 The IT Professional
3.0 units
51 hours lecture
This course teaches technical support skills for those seeking employment in the computer and information systems field. The emphasis of this course will be soft skills, career planning and customer business related knowledge to help the IT student prepare for and succeed in the industry. It also Includes training in the various means of delivering technical support and tools for gathering, organizing and disseminating technical information, and help desk organization.
This course has been approved for online and hybrid delivery.
This course uses an OER resource.

CIS 91 Introduction to Artificial Intelligence
3.0 units
Recommended Preparation: Completion of CIS 50
51 hours lecture
This course is an introduction to the field of Artificial Intelligence (AI), which attempts to understand and build intelligent systems. Topics include a comprehensive introduction to artificial intelligence

(AI) and its multifaceted applications. Foundational understanding of modern AI to enable effective communication about its functions, recognition of its applications, and awareness of its core principles
This course has been approved for online delivery.
This course uses an OER resource.

ENGL 155 - English Writing Lab – Basic Skills
0.0 unit
68 hours lab maximum (R)
This lab course is designed to provide students with course specific help in basic English and writing skills for any course offered where students require support with writing (English 1, English 2, English 3, English 5, English 9, English 12, English 22, English 33). Student to student tutorial assistance, study strategies and instructor intervention will provide the student with the academic support to be successful in the classroom. This course may be taken for a total of four enrollments. This course has been approved for open entry/open exit. This course has been approved for online, hybrid and correspondence delivery.

ENGL C1000 Academic Reading and Writing
3.0 units
Transfers to CSU/UC
General Education Area 1A
Cal-GETC Area 1A
C-ID ENGL 100
Prerequisite: Placement as determined by the college's multiple measures assessment process.
51 hours lecture
In this course, students receive instruction in academic reading and writing, including writing processes, effective use of language, analytical thinking, and the foundations of academic re-search. A refinement of the skills of writing and critical reading, emphasizing the relationship between purpose and form, clarity, coherence and unity, accuracy of expression, the development of the writer's voice and style, the elements of critical thinking, and the development of the research paper and its specific strategies to prepare for university studies.
This course has been approved for online, hybrid and correspondence delivery.
This course uses an OER resource.

ENGL C1001 Critical Thinking and Writing
3.0units
CSU/UC
General Education Area 1B
Cal-GETC Area 1B
C-ID ENGL105
Prerequisite: College-level composition (ENGL C1000/ ENGL C1000H/ ENGL C1000E/C-ID ENGL 100) or equivalent.
51 hours lecture
In this course, students receive instruction in critical thinking for purposes of constructing, evaluating, and composing arguments in a variety of rhetorical forms, using primarily non-fiction texts, refining writing skills and research strategies developed in ENGL C1000 College Reading and Writing (C-ID ENGL 100) or similar first-year college writing course.
This course will focus on the development of logical reasoning and analytical writing skills in conjunction with predominantly nonfiction prose and discussion of readings. Students will be expected to write a minimum of 6,000 words comprised of essays and homework assignments.
This course has been approved for correspondence, online and hybrid delivery.
This course uses an OER resource.

FS 49 Fire Science Work Experience
1.0-14.0 units
CSU
General Education Area E1
Recommended Preparation: ENGL105 or equivalent multiple measures placement.
714 hours lab (R)
This course involves student employment or internship providing meaningful work experiences related to the fire science course of study, combined with instruction in critical workplace skills. Work experience education may include paid or unpaid employment, full or part-time employment with a licensed business. Work Experience supports student educational and occupational goals, including developing career awareness, learning industry culture, and developing professional networks in career fields. All Work Experience enrollments require attendance of an orientation session. Instruction is also provided through course modules, work-based learning with a participating supervisor, and meetings in office or at the student worksite. Instruction focuses on goal setting to develop job-specific skills, enhancement of soft skills in the workplace, and career development. Subsequent enrollments require new individualized learning objectives. Units are awarded based upon achievement of approved learning objectives, workplace performance, submission of course assignments, and documentation of work hours. Enrollment in Work Experience courses is limited to a maximum of 14 units per enrollment. Students earn 1 unit of credit for each 51 hours of paid or volunteer work. This course has been approved for Hybrid delivery.

HO 49 Health Occupations Work Experience
1.0-14.0 units
CSU
General Education Area E1
Recommended Preparation: ENGL105 or equivalent multiple measures placement.
714 hours work experience (R)

This course involves student employment or internship providing meaningful work experiences related to the health occupations course of study, combined with instruction in critical workplace skills. Work experience education may include paid or unpaid employment, full or part-time employment with a licensed business. Work Experience supports student educational and occupational goals, including developing career awareness, learning industry culture, and developing professional networks in career fields. All Work Experience enrollments require attendance of an orientation session. Instruction is also provided through course modules, work-based learning with a participating supervisor, and meetings in office or at the student worksite. Instruction focuses on goal setting to develop job-specific skills, enhancement of soft skills in the workplace, and career development. Subsequent enrollments require new individualized learning objectives. Units are awarded based upon achievement of approved learning objectives, workplace performance, submission of course assignments, and documentation of work hours. Enrollment in Work Experience courses is limited to a maximum of 14 units per enrollment. Students earn 1 unit of credit for each 51 hours of paid or volunteer work. This course has been approved for Hybrid delivery.

HIST C1001 (Formerly HIST 16) United States History to 1877

3.0 units
CSU/UC
General Education Area 3 & 4
Cal-GETC Area 3B & 4
C-ID HIST 130
Recommended Preparation: Prepared to enter Introduction to College Reading, Writing, and Critical Thinking or equivalent through multiple measures.
51 hours lecture
This course is a historical survey of the United States, from Indigenous North America to the end of Reconstruction. The course also introduces students to historical reasoning skills.
It traces the transition of the U.S. into a nation, stressing the development of political and economic institutions, social movements, the challenge of sectionalism and geography. This course has been approved for hybrid, online and correspondence delivery.

HIST C1002 (Formerly HIST 17) United States History Since 1865

3.0 units
CSU/UC
General Education Area 3 & 4
Cal-GETC Area 4
C-ID HIST 140
Recommended Preparation: Prepared to enter Introduction to College Reading, Writing, and Critical Thinking, or equivalent through multiple measures.
51 hours lecture
This course is a historical survey of the United States from the end of the Civil War to the present. The course also introduces students to historical reasoning skills.
A course tracing the development of the U.S. into a world power, stressing growth in territory, population, industry and world influence from reconstruction to the present. Also traces the continuing development of the political institution brought about by industrialization and becoming a world power. This course has been approved for hybrid, online and correspondence delivery.

HUS 10 Introduction to Social Work and Human Services

3.0 units
CSU
C-ID SWHS 110
Recommended Preparation: ENGL105 or equivalent multiple measures placement.
51 hours lecture
An introductory overview of social welfare and the societal institutions in the U.S. that structure the provision of social services. This course presents a historical perspective on the development of U.S. social work and human services. Special attention is given to current service delivery systems, their policies and procedures, and the skills of culturally responsive social workers and human service workers within those settings. This course has been approved for online, hybrid and correspondence delivery.

HUS 49 Human Services Work Experience 1.0-14.0 units

CSU
General Education Area E1
Recommended Preparation: ENGL105 or equivalent multiple measures placement.
714 hours work experience (R)
This course involves student employment or internship providing meaningful work experiences related to the health occupations course of study, combined with instruction in critical workplace skills. Work experience education may include paid or unpaid employment, full or part-time employment with a licensed business. Work Experience supports student educational and occupational goals, including developing career awareness, learning industry culture, and developing professional networks in career fields. All Work Experience enrollments require attendance of an orientation session. Instruction is also provided through course modules, work-based learning with a participating supervisor, and meetings in office or at the student worksite. Instruction focuses on goal setting to develop job-specific skills, enhancement of soft skills in the workplace, and career development. Subsequent enrollments require new individualized

learning objectives. Units are awarded based upon achievement of approved learning objectives, workplace performance, submission of course assignments, and documentation of work hours. Enrollment in Work Experience courses is limited to a maximum of 14 units per enrollment. Students earn 1 unit of credit for each 51 hours of paid or volunteer work. This course has been approved for Hybrid delivery.

MATH 24 College Algebra for Liberal Arts
3.0 units

CSU/UC
General Education Area 2
Cal-GETC Area 2
Prerequisite(s): Intermediate Algebra or determined by multiple measure placement.
51 hours lecture
This is a college level course in algebra for majors in the Liberal Arts. The course will cover topics on functions, including polynomial, rational, radical, exponential, absolute value, and logarithmic functions. Solving various types of equations, linear systems, and their applications for problem solving will also be discussed and reflected upon. This course has been approved for hybrid, correspondence and online delivery. It is recommended that students enroll into a math support lab for transferable math classes. Added OER icon

PEAC 2D – Off-Season Skills and Conditioning for Soccer
1.5 units
CSU/UC (Unit limitation)
76.5 hours lab
Off-season skill development and strategy tactics combined with fitness conditioning to prepare interested participants for intercollegiate varsity soccer competition. Since skills/proficiencies are enhanced by supervised repetition and practice, this course is repeatable to a maximum of three enrollments but can only be taken once per year.

PEAC 6D – Off-Season Skills and Conditioning for Wrestling
1.5 units
CSU/UC (Unit limitation)
76.5 hours lab
Off-season skill development and strategy tactics combined with fitness conditioning to prepare interested participants for intercollegiate varsity wrestling competition. Since skills/proficiencies are enhanced by supervised repetition and practice, this course is repeatable to a maximum of three enrollments but can only be taken once per year

PEAC 7 - Varsity Baseball
3.0 units
CSU/UC (Unit limitation)
144-162 hours lab (R)
Intercollegiate Varsity Baseball Team Competition. This course may be taken for a total of two enrollments. Since skills/proficiencies are enhanced by supervised repetition and practice, this course is repeatable to a maximum of three enrollments but can only be taken once per year. This course has been approved for hybrid delivery

PEAC 11D - Off-Season Skills and Conditioning for Sand Volleyball
CSU/UC
144-162 hours lab
Off-season skill development and strategy tactics combined with fitness conditioning to prepare interested participants for intercollegiate women's varsity sand volleyball competition. Since skills/proficiencies are enhanced by supervised repetition and practice, this course is repeatable to a maximum of three enrollments but can only be taken once per year.

WT 49 - Welding Technology Work Experience

1.0-14.0 units
CSU
General Education Area E1
Recommended Preparation: ENGL105 or equivalent multiple measures placement.

This course involves student employment or internship providing meaningful work experiences related to the welding technology course of study, combined with instruction in critical workplace skills. Work experience education may include paid or unpaid employment, full or part-time employment with a licensed business. Work Experience supports student educational and occupational goals, including developing career awareness, learning industry culture, and developing professional networks in career fields. All Work Experience enrollments require attendance of an orientation session. Instruction is also provided through course modules, work-based learning with a participating supervisor, and meetings in office or at the student worksite. Instruction focuses on goal setting to develop job-specific skills, enhancement of soft skills in the workplace, and career development. Subsequent enrollments require new individualized learning objectives. Units are awarded based upon achievement of approved learning objectives, workplace performance, submission of course assignments, and documentation of work hours. Enrollment in Work Experience courses is limited to a maximum of 14 units per enrollment. Students earn 1 unit of credit for each 51 hours of paid or volunteer work. This course has been approved for Hybrid delivery.

III. Program Revisions

Certificate of Achievement: Biology/Chemistry

Total Units for the Certificate of Achievement: 16-18 units
Required Core Courses:

Select a minimum of 16 units from the following:

Course No	Course Title	Units
BIOL 20	Microbiology	5.0
BIOL 21	Human Anatomy with Lab	4.0
BIOL 22	Human Physiology with Lab	4.0
BIOL 25	Human Anatomy & Physiology I	4.0
BIOL 26	Human Anatomy & Physiology II	4.0
BIOL 32	General Biology	3.0
BIOL 32L	General Biology with Lab	4.0
CHEM 1A	General Chemistry I	5.0
CHEM 1B	General Chemistry II	5.0
CHEM 8	Introduction to Organic and Biochemistry	4.0
CHEM 40	Survey of Chemistry and Physics	3.0
CHEM 40L	Teaching Laboratory for Survey of Chemistry and Physics	1.0
CHEM 45	Introduction to Chemistry	4.0

Certificate of Achievement Natural Science

Total Units Required for Certificate of Achievement: 16-18 units
Select a minimum of 16 units from the following courses in area of emphasis:

Course No	Course Title	Units
AGR 10	Introduction to Animal Science	3.0
AGR 19	Introduction to Soil Science	3.0
AGR 20	Introduction to Plant Science	4.0
ANTH 1	Biological Anthropology	3.0
BIOL 32L	General Biology with Lab	4.0
CHEM 1A	General Chemistry I	5.0
CHEM 1B	General Chemistry II	5.0
CHEM 8	Introduction to Organic and Biochemistry	4.0

ASTR 1	Introduction to Astronomy	4.0
BIOL 20	Microbiology	5.0
BIOL 21	Human Anatomy with Lab	4.0
BIOL 22	Human Physiology with Lab	4.0
BIOL 25	Human Anatomy & Physiology I	4.0
BIOL 26	Human Anatomy & Physiology II	4.0
BIOL 32	General Biology	3.0
CHEM 40	Survey of Chemistry and Physics	3.0
CHEM 40L	Teaching Laboratory for Survey of Chemistry and Physics	1.0
CHEM 45	Introduction to Chemistry	4.0
GEOL 1	Physical Geology	4.0
GEOL 5	Historical Geology & Paleontology	4.0
PHSC 1	Physical Science	3.0
PHYS 2A	General Physics I	4.0
PHYS 2B	General Physics II	4.0

Associate in Science Degree in Fire Technology

Total Units for the Associate in Science Degree: 60 Units

Required Core Courses: 18 Units

Course No	Course Title	Units
FS 3	Fundamentals of Fire Prevention	3.0
FS 4	Fire Protection Equipment and Systems	3.0
FS 5	Introduction to Fire Protection and mergency Services	3.0
FS 6	Building Construction for Fire Protection	3.0
FS 13	Fire Behavior and Combustion	3.0
FS 14	Principles of Fire Safety and Survival	3.0

Required Elective: 12 Units: select from the following listing:

BUS 25	Small Business Management	3.0
BUS 27	Business Communications	3.0
EMT 21	Emergency Medical Responder	2.5
EMT 60	Emergency Medical Technician-1 (Basic)	8.5
FS 7	Intro to Native California Forest Manag	3.0
FS 8	Wildland Fire Suppression	2.0
FS 20	First Aid/CPR for Public Safety Employees	1.5
FS 23	Firing Operations (S-219)	1.0
FS 26	Basic Air Operations (S-270)	1.0
FS 49	Fire Technology Work Experience	1.0-14.0
FS 50	Rapid Intervention Crew (RIC Operations)	0.5
FS 51	Introduction to Fire Technology Careers	1.0
FS 52	Intermediate Incident Command System for Expanding Incidents (ICS-300)	1.0
FS 56	Helicopter Crewmember (S-271)	2.0
FS 57	Common Passenger Vehicle Rescue Tech	0.5
FS 58.1	Water Rescue Awareness & Operations	0.5
FS 59	Confined Space Awareness	
FS 60.1	Cal Fire Module 1A Structural Firefighting	6.0
FS 60C	Cal Fire Module 1C Wildland Firefighter	3.0
FS 61	Basic Firefighter Training (Basic 32)	2.0
FS 64	Instructor I Instructional Methodology	2.0
FS 64B	Instructor II Instructional Development	2.0
FS 65A	Driver/Operator 1A: Emergency Vehicle	1.5
FS 65B	Driver Operator 1B: Pump Operations	1.5
FS 65C	Wildland Fire Apparatus Operation	0.5
FS 70	Heavy Equipment Boss (S-236)	1.0
FS 70A	Single Resource Academy	1.5
FS 70B	Engine Boss (Single Resource)	1.0
FS 70C	Single Resource Crew Boss (S-230)	1.0
FS 72	HazMat First Responder Operations	1.5
FS 72A	HazMat First Responder Refresher	0.5
FS 72B	HazMat First Responder Decontamination	0.5
FS 72C	HazMat First Responder Awareness	0.5
FS 72IC	HazMat Incident Commander	1.0
FS 73A	Incident Business Management (S-260)	1.0
FS 74	Fire in the Interface (S-215)	1.0
FS 75	Intermediate Wildland Fire Behavior (S-290)	2.0
FS 76	Firefighter Type 1 (Squad Boss S-131)	0.5
FS 78	Followership to Leadership (L-280)	1.0
FS 80	Firefighter Survival	1.0

FS 81	Wildland Firefighter Safety and Survival	0.5
FS 84	Lessons Learned (Study of Fatal Fires)	1.0
FS 85	Understanding Maps, Compass And GPS	0.5
FS 87	Expanded Dispatch Recorder: D-110	1.0
FS 89	Wildland Fire Chainsaws (S-212)	1.0
FS 90	Portable Pumps and Water Use S-211	1.0
FS 92A	Company Officer 2A	2.0
FS 92B	Company Officer 2B	1.0
FS 92C	Company Officer 2C	2.0
FS 92D	Company Officer 2D	2.0
FS 92E	Company Officer 2E	2.0
FS 94	Strike Team/Task Force Leader, All Hazards (AH-330)	1.5
FS 95	Initial Attack Incident Command (S-200)	0.5
FS 96	Low Angle Rope Rescue	0.5
FS 96A	Rope Rescue Awareness/Operations	1.0
FS 97A	Fire Control 4A, Ignitable Liquids and ases Awareness/Operations	0.5
FS 97B	Fire Control 3: Structural Firefighting (Live Fire)	1.0
FS 98.18	Annual Fireline Safety Refresher Training (RT-130)	0.5
FS 98.20	Incident Safety Awareness for Hired Vendors	0.5
FS 98.21	Volunteer Firefighter Academy	2.5

Electives: 9 Units (The student may select any courses numbered 1-99 to satisfy this requirement.)

General Education Requirements: 21 Units

See a counselor to prepare your educational plan with the latest scheduling information.

Certificate of Achievement Fire Technology

Total units for the Certificate of Achievement: 30 Units

Required Core Courses: 18 Units

Course No	Course Title	Units
FS 3	Fundamentals of Fire Prevention	3.0
FS 4	Fire Protection Equipment and Systems	3.0
FS 5	Introduction to Fire Protection and mergency Services	3.0
FS 6	Building Construction for Fire Protection	3.0
FS 13	Fire Behavior and Combustion	3.0
FS 14	Principles of Fire Safety and Survival	3.0

Required Elective: 12 Units: select from the following listing:

BUS 25	Small Business Management	3.0
BUS 27	Business Communications	3.0
EMT 21	Emergency Medical Responder	2.5
EMT 60	Emergency Medical Technician-1 (Basic)	6.5
FS 8	Wildland Fire Suppression	2.0
FS 20	First Aid/CPR for Public Safety Employees	1.5
FS 23	Firing Operations (S-219)	1.0
FS 26	Basic Air Operations (S-270)	1.0
FS 49	Fire Technology Work Experience	1.0-14.0
FS 50	Rapid Intervention Crew (RIC Operations)	0.5
FS 51	Introduction to Fire Technology Careers	1.0
FS 52	Intermediate Incident Command System For Expanding Incidents (ICS-300_	
FS 56	Helicopter Crewmember (S-271)	2.0
FS 57	Common Passenger Vehicle Rescue Tech	0.5
FS 58.1	Water Rescue Awareness & Operations	0.5
FS 59	Confined Space Awareness	
FS 60.1	Cal Fire Module 1A Structural Firefighting	6.0
FS 60C	Cal Fire Module 1C Wildland Firefighter	3.0
FS 61	Basic Firefighter Training (Basic 32)	2.0
FS 64	Instructor I Instructional Methodology	2.0
FS 64B	Instructor II Instructional Development	2.0
FS 65A	Driver/Operator 1A: Emergency Vehicle	1.5
FS 65B	Driver Operator 1B: Pump Operations	1.5
FS 65C	Wildland Fire Apparatus Operation	0.5
FS 70	Heavy Equipment Boss (S-236)	1.0
FS 70A	Single Resource Academy	1.5
FS 70B	Engine Boss (Single Resource)	1.0
FS 70C	Single Resource Crew Boss (S-230)	1.0
FS 72	HazMat First Responder Operations	1.5
FS 72A	HazMat First Responder Refresher	0.5
FS 72B	HazMat First Responder Decontamination	0.5
FS 72C	HazMat First Responder Awareness	0.5
FS 72IC	HazMat Incident Commander	1.0
FS 73A	Incident Business Management (S-260)	1.0
FS 74	Fire in the Interface (S-215)	1.0
FS 75	Intermediate Wildland Fire Behavior (S-290)	2.0
FS 76	Firefighter Type 1 (Squad Boss S-131)	0.5
FS 78	Followership to Leadership (L-280)	1.0
FS 80	Firefighter Survival	1.0
FS 81	Wildland Firefighter Safety and Survival	0.5
FS 84	Lessons Learned (Study of Fatal Fires)	1.0

FS 85	Understanding Maps, Compass And GPS	0.5
FS 87	Expanded Dispatch Recorder: D-110	1.0
FS 89	Wildland Fire Chainsaws (S-212)	1.0
FS 90	Portable Pumps and Water Use S-211	1.0
	Fire Control 4	0.5
FS 92A	Company Officer 2A	2.0
FS 92B	Company Officer 2B	1.0
FS 92C	Company Officer 2C	2.0
FS 92D	Company Officer 2D	2.0
FS 92E	Company Officer 2E	2.0
FS 94	Strike Team/Task Force Leader, All Hazards (AH-330)	1.5
FS 95	Initial Attack Incident Command (S-200)	0.5
FS 96	Low Angle Rope Rescue	0.5
FS 96A	Rope Rescue Awareness/Operations	1.0
FS 97A	Fire Control 4A, Ignitable Liquids and Gases Awareness/Operations	0.5
FS 97B	Fire Control 3: Structural Firefighting (Live Fire)	1.0
FS 98.18	Annual Fireline Safety Refresher Training (RT-130)	0.5
FS 98.20	Incident Safety Awareness for Hired Vendors	0.5
FS 98.21	Volunteer Firefighter Academy	2.5

Program Student Learning Outcomes

Upon completion of the **Associate in Science Degree** or the **Certificate of Achievement in Fire Technology**, the student will be able to:

1. Safely perform basic firefighting skills as part of the Incident Command System in preparation for an entry-level position at most firefighting agencies.

Certificate of Achievement Basic Wildland Firefighter

Total units for the Certificate: 19.5 Units

Required Core Courses: 19.5 Units

Course No	Course Title	Units
FS 5	Introduction to Fire Protection and mergency Services	3.0
FS 8	Wildland Fire Suppression	2.0
FS 20	First Aid/CPR for Public Employees	1.5
FS 51	Introduction to Fire Careers	1.0
FS 60C	Cal Fire Module 1C Wildland Fighter	3.0
FS 61	Basic Firefighter Training (Basic 32)	2.0
FS 72	HazMat First Responder Operations	1.5
FS 74	Fire in the Interface (S-215)	1.0
FS 85	Understanding Maps Compass & GPS	0.5
FS 89	Wildland Fire Chainsaws (S-212)	1.0
FS 90	Portable Pumps and Water Use	1.0
FS 98.21	Volunteer Firefighter Academy	2.5

Program Student Learning Outcomes

Upon successful completion of the **Certificate of Achievement Basic Wildland Firefighter**, the student will be able to:

1. Demonstrate basic knowledge of fire physics and behavior.
2. Understand and demonstrate the physical requirements to become a wildland firefighter.
3. Understand the basic skills needed to respond to all risks in emergency incidents
4. Perform the basic duties of an entry level firefighter such as line construction, safe and proper use of fire line hand tools including chain saws, safe and proper use of pumps, first aid/CPR, recognizing and dealing with hazardous situations involving hazardous materials, ability to complete an application for employment, fire line safety, radio operation.

Certificate of Achievement CAL FIRE Academy

Total units for the Certificate: 16.5 Units
Required Core Courses: 16.5 Units

Course No	Course Title	Units	Course No	Course Title	Units
FS 20	First Aid/CPR for Public Employees	1.5	FS 60C	Cal Fire Module 1C Wildland Firefighter	3.0
FS 51	Introduction to Fire Technology Careers	1.0	FS 61	Basic Firefighter Training (Basic 32)	2.0
FS 59	Confined Space Awareness	0.5	FS 72	HazMat First Responder Operations	1.5
FS 60.1	Cal Fire Module 1A Structural Firefighting	6.0	FS 80	Fire Fighter Survival	1.0
			FS 81	Wildland Fire Fighter Safety & Survival	0.5

Program Student Learning Outcomes

Upon successful completion of the **Certificate of Achievement in Cal Fire Academy**, the student will be able to:

1. Function effectively, safely, and cooperatively as a member of a wildland fire suppression crew; develop skills in the use of tools for wildland fire suppression and their maintenance and have basic Skills to function safely at a structure fire incident.

Associate in Arts Degree in Elementary Teacher Education: Integrated Programs for Transfer

Total Units for the Associate in Science Degree for Transfer: 60 Units

Required Core Courses: 25 Units

Course No	Course Title	Units	Course No	Course Title	Units
ED 2	Introduction to Elementary Classroom Instruction	3.0	**Complete 4 units from the following:**		
			CHEM 40/40L	Survey of Chemistry and Physics/ Teaching Laboratory for Survey of Chemistry and Physics	4.0
COMM C1000	Introduction to Public Speaking	3.0			
ENGL C1000	Academic Reading and Writing	3.0	CHEM 45	Introduction to Chemistry	4.0
POLS C1000	American Government and Politics	3.0	**Complete 3 units from the following:**		
HIST C1001	US History to 1877	3.0	ART 8	Art Appreciation	3.0
CD 31	Child Development: Conception Through Adolescence	3.0	MUS 12	Music Appreciation	3.0
BIOL 32L	Introduction to Biology with Lab	4.0	**Complete the following 3 units:**		
HIST 14	World History, Beginning to 1500	3.0	MATH 11A	Concepts of Elementary School Mathematics	3.0

Program Student Learning Outcomes

Upon completion of the **Associate in Arts Degree in Elementary Teacher Education for Transfer**, the student will be able to:

1. Demonstrate the foundational skills and knowledge needed to teach elementary school students
2. Demonstrate a broad understanding of biological, social, cognitive, and cultural factors influencing children's development and learning.

Associate in Science Degree in Early Childhood Education for Transfer

Total units for the Associate in Science Degree with a minimum grade point average of 2.0: 60 units

Required Core Courses minimum grade 2.0: 24 Units

Course No	Course Title	Units	CD 19	Children's Nutrition, Health and Safety	3.0
CD 11	Observation and Assessment	3.0	CD 20	Principles and Practices of Teaching Young Children	3.0
CD 12	Child, Family and Community	3.0			
CD 16	Introduction to Curriculum	3.0			

CD 24	Practicum	3.0
CD 25	Teaching in a Diverse Society	3.0
CD 31/ PSYC 31	Child Development: Conception Through Adolescence	3.0

Completion of the Cal-GETC General Education pattern

Remaining Units to total 60 Units may be selected from courses numbered 1-49

Program Student Learning Outcomes

Upon completion of the **Associate in Science Degree in Early Childhood Education for Transfer**, students will be able to:

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education of young children.
2. Design, implement and evaluate environments and activities that support positive, developmental play and learning outcomes for all young children.
3. Apply effective guidance and interaction strategies that support all children's social learning, identity, and self-confidence.
4. Develop strategies that promote partnerships between programs, teachers, families and their communities.
5. Demonstrate ethical standards and professional behaviors that deepen understanding, knowledge and commitment to the EC/CD profession.

Certificate of Achievement Child Development

Total Units for the Certificate of Achievement: 18 Units
Required Core Courses: 18 Units

Course No	Course Title	Units
CD 12	Child, Family and Community	3.0
CD 16	Introduction to Curriculum	3.0
CD 19	Children's Nutrition, Health, and Safety	3.0
CD 20	Principles and Practices of Teaching Young Children	3.0
CD 22	The Infant/Toddler	3.0
CD 31/ PSYC 31	Child Development: Conception Through Adolescence	3.0

Program Student Learning Outcomes

Upon completion of the **Associate in Arts Degree** or the **Certificate of Achievement in Child Development**, the student will be able to:

1. Analyze the influence of culture, family, society, and environment on an individual's development.
2. Design, implement and evaluate environments and activities that support positive, developmental play and learning outcomes for all young children.
3. Apply effective guidance and interaction strategies that support all children's social learning, identity, and self-confidence.

Associate in Arts Degree in Psychology for Transfer

Total Units for the Associate in Arts Degree with a minimum grade point average of 2.0: 60 Units
Required Core Courses minimum grade 2.0: 18 Units
Required Core: 9 Units

Course No	Course Title	Units
STAT C1000	Introduction to Statistics	3.0
PSYC C1000	Introduction to Psychology	3.0
PSYC 5	Introduction to Research Methods	3.0

Complete one of the following 3 units

BIOL 32	General Biology	3.0

Complete 6 units from the following:

PSYC 6	Abnormal Psychology	3.0

PSYC 18	Life Span Development	3.0	PSYC 33	Psychology of Personal and Social Development	3.0
CD 31/ PSYC 31	Child Development: Conception Through Adolescence	3.0			

Completion of the Cal-GETC Education Pattern
Remaining Units to total 60 Units may be selected from courses numbered 1-49

Program Student Learning Outcomes

Upon completion of the **Associate in Arts Degree in Psychology for Transfer** student will be able to:

1. Demonstrate comprehension of the major concepts, theoretical perspectives, empirical findings, and historical and contemporary trends in psychology.
2. Demonstrate comprehension of scientifically-based research methods in psychology.
3. Use logic and empirical evidence to evaluate claims made about behavior.

Associate in Arts Degree University Studies: Emphasis in Social Sciences

Total Units for the Associate in Arts Degree: 60 Units
Required Core Courses: 18 Units
Select 18 units from the following:

Course No	Course Title	Units	Course No	Course Title	Units
AJ 10	Criminology	3.0	HUM 1	Western Civilization-Prehistoric to 1600	3.0
AJ 12	Introduction to Criminal Justice	3.0	HUM 2	Western Civilization-1600 to Present	3.0
AJ 20	Criminal Law	3.0	POLS C1000	American Government and Politics	3.0
AGR 2	Agricultural Economics	3.0	PSYC C1000	Introduction to Psychology	3.0
ANTH 2	Cultural Anthropology	3.0	PSYC 5	Introduction to Research Methods	3.0
CD 31/ PSYC 31	Child Development: Conception Through Adolescence	3.0	PSYC 6	Abnormal Psychology	3.0
ECON 10 or *ECON C2002	Principles of Macroeconomics	3.0	PSYC 18	Life Span Development	3.0
			PSYC 33	Psychology of Personal and Social Adjustment	3.0
ECON 11 or *ECON C2001	Principles of Microeconomics	3.0	SOC 1	Introduction to Sociology	3.0
ES 1	Ethnic Minorities in America	3.0	SOC 2	Social Problems	3.0
GEOG 2	Cultural Geography	3.0	SOC 3	Family Relations	3.0
HIST 14	World History-Beginning to 1500	3.0	SOC 4	Introduction to Gender	3.0
HIST 15	World History-1500 to Present	3.0			
HIST 16 or *HIST C1001	United States History to 1877	3.0			
HIST 17 or *HIST C1002	United States History Since 1865	3.0			

Completion of the Cal-GETC General Education Pattern
Remaining Units to total 60 Units may be selected from courses numbered 1-49

Associate in Arts Degree General Studies: Emphasis in Social Sciences

Total Units for the Associate in Arts Degree: 60 Units

Required Core Courses: 18 Units
Select 18 units from the following:

Course No	Course Title	Units
AJ 10	Criminology	3.0
AJ 12	Introduction to Criminal Justice	3.0
AJ 20	Criminal Law	3.0
AGR 2	Agricultural Economics	3.0
ANTH 2	Cultural Anthropology	3.0
BUS 22	Business Law	3.0
CD 31/ PSYC 31	Child Development: Conception Through Adolescence	3.0
ECON 10 or ‘ECON C2002	Principles of Macroeconomics	3.0
ECON 11 or ‘ECON C2001	Principles of Microeconomics	3.0
ES 1	Ethnic Minorities in America	3.0
GEOG 2	Cultural Geography	3.0
HIST 14	World History-Beginning to 1500	3.0
HIST 15	World History-1500 to Present	3.0
HIST 16 OR *HIST C1001	United States History to 1877	3.0
HIST 17 or *HIST C1002	United States History Since 1865	3.0
HUM 1	Western Civilization-Prehistoric to 1600	3.0
HUM 2	Western Civilization-1600 to Present	3.0
POLS C1000	American Government and Politics	3.0
PSYC C1000	Introduction to Psychology	3.0
PSYC 5	Introduction to Research Methods	3.0
PSYC 6	Abnormal Psychology	3.0
PSYC 18	Life Span Development	3.0
PSYC 33	Psychology of Personal and Social Adjustment	3.0
SOC 1	Introduction to Sociology	3.0
SOC 2	Social Problems	3.0
SOC 3	Family Relations	3.0
SOC 4	Introduction to Gender	3.0

Electives: 21 units Courses must be numbered 1-99
General Education Requirements: 21 Units

Note: This degree does not prepare a student to transfer to a University

Certificate of Achievement: Social Science

Total Units Required for Certificate of Achievement: 16-18 units
Select a minimum of 16 units from the following courses in area of emphasis:

Course No	Course Title	Units	Course No	Course Title	Units
AJ 10	Criminology	3.0	HUM 1	Western Civilization: Prehistoric Times to 1600	3.0
AJ 12	Introduction to Correctional Science	3.0	HUM 2	Western Civilization: 1600 to Present	3.0
AJ 20	Criminal Law	3.0	POLS C1000	American Institutions	3.0
AGR 2	Agricultural Economics	3.0	PSYC C1000	Introduction to Psychology	3.0
ANTH 2	Cultural Anthropology	3.0	PSYC 5	Introduction to Research Methods	3.0
CD 31/ PSYC 31	Child Development: Conception through Adolescence	3.0	PSYC 6	Abnormal Psychology	3.0
ECON 11 or *ECON C2001	Principles of Microeconomics	3.0	PSYC 18	Human Development: A Life Span	3.0
ECON 10 or ECON C2002	Principles of Macroeconomics	3.0	PSYC 33	Psychology of Personal and Social Adjustment	3.0
ES 1	Ethnic Minorities in America	3.0	SOC 1	Introduction to Sociology	3.0
GEOG 2	Cultural Geography	3.0	SOC 2	Social Problems	3.0
HIST 14	World History, Beginning to 1500	3.0	SOC 3	Family Relations	3.0
HIST 15	World History, 1500 to Present	3.0	SOC 4	Introduction to Gender	3.0
HIST 16 or *HIST C1001	United States History to 1877	3.0			
HIST 17 or *HIST C1002	United States History since 1865	3.0			

IV. Other

General Education Transfer Curriculum

CERTIFICATE OF ACHIEVEMENT

California General Education Transfer Curriculum (Cal-GETC) Certificate of Achievement

California General Education Transfer Curriculum (Cal-GETC) Certification

Cal-GETC General Education Certificate of Achievement requires 34 Units. Minimum GPA of **2.00** overall and a grade of "C" or better in each course. Completion of Areas 1, 2, 3, 4, 5, 6;

AREA 1: English Communication 9 units (One from each group)

English C1000 English C1001 Communication C1000

AREA 2: Mathematical Concepts and Quantitative Reasoning 3 units

Math 1A, 1B, 6, 24, Statistics C1000

AREA 3: Arts and Humanities 6 units – One from each group.

Arts:

Art 6 or *ARTH C1100, 7 or *ARTH C1200, 8
Film 1
Music 6, 7, 12

Humanities:

History 14, 15, 16 or *C1001, 17 or *C1002
Humanities 1, 2
Philosophy 10

AREA 4: Social and Behavioral Sciences 6 units (two different academic areas).

Administration of Justice 12
Agriculture 2
Anthropology 2
Child Development 31
Economics 10 or *C2002, 11 or *C2001
Ethnic Studies 1, 2
Geography 2
History 14, 15, 16 or C1001, 17 or C1002
Political Science C1000
Psychology C1000, 5, 6, 18, 31
Sociology 1, 2, 3, 4

AREA 5: Physical and Biological Sciences 7 units. At least 2 courses, one Physical Science and one Biological Science; at least one must include a laboratory (indicated by "L" in parentheses).

Physical Sciences:

Astronomy 1(L)
Chemistry 1A(L), 1B (L), 8(L), 40, 40(L), 45(L)
Geology 1(L), 5(L)
Physical Science 1
Physics 2A(L), 2B(L)

Biological Sciences:

Agriculture 10(L), 20(L)
Anthropology 1, 1L
Biology 1(L), 20(L), 21(L), 22(L), 25(L), 26(L), 32, 32(L)

AREA 6: Ethnic Studies 3 units - At least 1 course.

Ethnic Studies 1

(Optional) Language other than English – proficiency equivalent to two years of high school study in the same language

ASL 1, ASL 2

(Optional) CSU Graduation Requirement in US HISTORY, Constitution and American Ideals 6 units

HIST 16 or *C1001 and 17 or *C1002 or HIST 16 or *C1001 and POLS C1000 or HIST 17 or *C1002 and POLS C1000

Program Student Learning Outcomes

Upon completion of the **California General Education Transfer Curriculum (Cal-GETC) Certificate of Achievement,** the student will be able to:

1. Understand and apply methods of inquiry for a variety of disciplines including the scientific method for scientific inquiry and appropriate methods for social and behavior science inquiries.
2. Explain and analyze relationships between science and other human activities.
3. Apply knowledge of the ways people act and have acted in response to their societies to express an appreciation for how diverse societies and social subgroups operate to understand social dynamics within historical and contemporary communities.
4. Understand ways in which people throughout the ages and in Western and non-Western cultures have responded to themselves and the world around them in artistic and cultural creation; apply this knowledge to make value judgments on cultural activities and artistic expressions and demonstrate an understanding of the interrelationship between the creative arts, the humanities and self.
5. Engage in verbal communication by participating in discussions, debates, and oral presentations utilizing proper rhetorical perspective, reasoning and advocacy, organization, accuracy, and the discovery, critical evaluation and reporting of information.

6. Compose effective written communications and essays with correct grammar, spelling, punctuation and appropriate language, style and format utilizing academically accepted means of researching, evaluating and documenting sources within written works.
7. Analyze, evaluate and explain theories, concepts and skills within varied disciplines using inductive and deductive processes and quantitative reasoning and application.
8. Demonstrate appreciation of themselves as living organism through their choices for physical health, activities, stress management, relationships to the social and physical environment, and responsible decision-making.