

---

## LOS ANGELES MISSION COLLEGE 2019-2020 CATALOG ADDENDUM III

This addendum contains updates to existing courses and programs, as well as any new courses or programs that were approved after the publication of the 2019 - 2020 Catalog and 2019 - 2020 Catalog Addendum I & II.

---

### UPDATED COURSES

- |  |                            |  |   |
|--|----------------------------|--|---|
| • ANATOMY 001  | prerequisites, hours       | • E.S.L. 006A                              | description, prerequisites                    |
| • ANTHRO 104   | prerequisites              | • E.S.L. 010                               | units, hours                                  |
| • ART 307  | description, prerequisites | • HLTHOCC 062, 063,<br>034, 065            | advisories                                    |
| • ART 702, 703   | prerequisites              | • HTHTEK 100, 103,<br>110, 230             | transferability                               |
| • ARTHIST 161  | description                | • INTRDGN 112, 113                         | title, description, advisory,<br>units, hours |
| • BIOLOGY 003, 005,<br>006, 007                                      | prerequisites              | • INTRDGN 114                              | hours   |
| • BIOTECH 002  | prerequisites              | • JOURNAL 100                              | prerequisites                                 |
| • BSICKSL 002CE, 025CE   | title, description, hours  | • KIN ATH 563                              | description                                   |
| • BSICKSL 023CE, 091CE   | title, description         | • LAW 001                                  | description                                   |
| • CHEM 051, 101  | prerequisites              | • MATH 240, 245                            | hours   |
| • CH DEV 001, 007, 010,<br>014, 015, 031, 039, 044,<br>045, 055, 058 | requirements               | • MICRO 020                                | prerequisites                                 |
| • CH DEV 011   | description                | • NURSING 399A                             | prerequisites                                 |
| • CH DEV 023   | description, prerequisites | • PHRMCTK 021, 023,<br>029, 030, 031, 035, | advisories, prerequisites                     |
| • COMM 102, 121, 151   | advisories                 | • PHRMCTK 032, 034,<br>036, 037, 038       | advisories, prerequisites, unit               |
| • CS 102, 113  | description, prerequisites | • PHYSIOL 001                              | prerequisites                                 |
| • CLN ART 150  | description                | • PSYCH 013, 052                           | description                                   |
| • EARTH 002  | hours                      | • SOC 031                                  | description                                   |
| • ECON 001, 002  | prerequisites              | • THEATER 110                              | prerequisites                                 |
| • ENG GEN 131  | prerequisites              |  |   |
| • ENV SCI 002  | prerequisites              |  |   |
| • ENGLISH 101  | prerequisites              |  |   |

---

### REINSTATED COURSES

- DRAFT 016
- SOC 185

---

### NEW COURSES

- |  |                                       |
|--|---------------------------------------|
| • ACAD PR 121CE, 240CE, 245CE  | • EGD TEK 111, 131                    |
| • BSICKSL 001, 083CE, 084CE, 085CE, 086CE, 087CE, 200CE,<br>201CE, 202CE, 204CE, 205CE, 206CE, 208CE, 209CE, 210CE | • ENG GEN 122                         |
| • CHICANO 057  | • ENG SUP 121, 200, 221, 224, 225     |
| • CINEMA 125   | • ESLCVCS 013CE, 014CE                |
| • CIS 101, 285   | • IND TEK 103                         |
| • CS 213   | • MATH 238A, 238B, 246, 261, 262, 263 |
| • DANCETQ 151, 152   | • MULTIMD 605                         |
| • DRAFT 017  | • SOC 013                             |

---

## ARCHIVED COURSES

- ART 101, 102, 103, 105, 109, 111
- BUS 006
- CAOT 001, 002, 034, 084, 086, 092, 105, 108, 150
- CHEM 285
- CLN ART 160, 161, 162, 163
- CS 151
- ECON 010
- ENGLISH 104
- ESLCVCS 001CE
- FINANCE 002
- GEOG 014
- MARKET 031
- MATH 122, 125S, 157, 227C, 238C, 238L, 241S, 245C, 245L, 260S
- POL SCI 185, 285, 385
- SOC 385
- VOC ED 108CE, 167CE, 178CE, 185CE

---

## UPDATED CREDIT PROGRAM

- CERTIFICATE OF ACHIEVEMENT:  
Family Studies

---

## NEW CREDIT PROGRAMS

- CERTIFICATE OF ACHIEVEMENT:  
Cloud Computing
- CERTIFICATE OF ACHIEVEMENT:  
Engineering Drafting Technician
- CERTIFICATE OF ACHIEVEMENT:  
Land Surveying Technician I
- CERTIFICATE OF ACHIEVEMENT:  
Land Surveying Technician II
- ASSOCIATE IN SCIENCE FOR TRANSFER:  
Chemistry for UC Transfer
- ASSOCIATE IN SCIENCE FOR TRANSFER:  
Physics for UC Transfer

---

## NEW NONCREDIT PROGRAMS

- CERTIFICATE OF COMPETENCY:  
Business Calculus Preparation
- CERTIFICATE OF COMPETENCY:  
Geometry and Trigonometry Preparation
- CERTIFICATE OF COMPETENCY:  
Precalculus Preparation

## COURSE DESCRIPTIONS

### ACAD PR 121CE GEOMETRY FUNDAMENTALS – NON-CREDIT

**Prerequisite:** None | **Lecture:** 2.5 hrs

This course prepares students for success in elementary geometry. Topics include geometry foundations, inductive and deductive reasoning, parallel and perpendicular lines, congruence, similarity, properties of triangles, polygons, right triangles and trigonometry, circle, and basic algebraic and geometric proofs. This class can be taken in conjunction with credit class or as a stand-alone introduction to geometry.

### ACAD PR 240CE TRIGONOMETRY FUNDAMENTALS – NON-CREDIT

**Prerequisite:** None | **Lecture:** 2 hrs

This course prepares students for success in trigonometry. Topics include angles; triangles; circles; trigonometric functions and their graphs; invers trigonometric functions; trigonometric expressions, and identities; the laws of sines and cosines; polar coordinates and equations; polar form of complex numbers; and parametric equations. This class can be taken in conjunction with credit class or as a stand-alone introduction to trigonometry.

### ACAD PR 245CE COLLEGE ALGEBRA FUNDAMENTALS – NON-CREDIT

**Prerequisite:** None | **Lecture:** 2 hrs

This course prepares students for college algebra. Topics include functional analysis on linear, polynomial, rational, exponential, logarithmic functions, system of equations and inequalities, and analytic geometry, and sequences and series. This class can be taken in conjunction with credit class or as a stand-alone introduction to college algebra.

### ANATOMY 001 INTRODUCTION TO HUMAN ANATOMY (UC:CSU) 4 UNITS

**Prerequisite:** BIOLOGY 003 or BIOLOGY 005 | **Lecture:** 3 hrs, **Lab:** 3 hrs

Examines cells, tissues, and organs of these human systems: integumentary, skeletal, muscular, nervous, circulatory, respiratory, digestive, urinary, endocrine, lymphatic, and reproductive. Dissection and microscopy are used extensively in lab.

### ANTHRO 104 HUMAN LANGUAGE & COMMUNICATION (UC:CSU) 3 UNITS

**Prerequisite:** None | **Lecture:** 3 hrs

Examines basic principles of linguistics: language components, diversity, origins, acquisition and use are explored, with emphasis on communication and sociocultural factors.

### ART 307 OIL PAINTING I – (UC:CSU) 3 UNITS

**Prerequisite:** ART 300 | **Advisory:** ART 201 | **Lecture:** 2 hrs, **Lab:** 2 hrs

Introduction to principles, elements, and practices of oil painting through a historical lens. Focus is on exploration of oil painting materials, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter.

### ART 702 SCULPTURE II – (UC:CSU) 3 UNITS

**Prerequisite:** ART 700 or ART 701 | **Lecture:** 2 hrs, **Lab:** 2 hrs

Exploration of sculptural principles, techniques and concepts. Methods focus on carving, mold making and casting with attention to creative self-expression and historical context.

### ART 703 SCULPTURE III –(UC:CSU) 3 UNITS

**Prerequisite:** ART 701 or ART 702 | **Lecture:** 2 hrs, **Lab:** 2 hrs

Explores the appreciation and creation of sculptural forms in contemporary applications. Emphasis is placed on concept, experimentation, and development of style while examining signature style and site-specific installation.

### ARTHIST 161 INTRODUCTION TO AMERICAN ART – (CSU) 3 UNITS

**Prerequisite:** None | **Advisory:** ENGLISH 101 | **Lecture:** 3 hrs

An introductory survey of American art from its pre-Colonial past to the contemporary era with a focus on the social, political, economic, and philosophical conditions that have resulted in a culturally diverse artistic tradition. The artistic traditions and influences of European immigrants, Native Americans, Chicano Americans, Latin Americans, and European Americans are studied in relation to historical contexts.

### BIOLOGY 003 INTRODUCTION TO BIOLOGY – (UC:CSU) 4 UNITS

**Prerequisite:** None | **Lecture:** 3 hrs, **Lab:** 3 hrs

Examines the fundamental principles of biology with laboratories emphasizing hands-on investigations. Topics include an introduction to evolutionary theory, basic biological chemistry, cell function and reproduction, cellular respiration and photosynthesis, classical and contemporary genetics, gene expression and an introduction to animal structure and function. Meets UC/CSU GE requirement of natural science with a lab.

### BIOLOGY 005 INTRODUCTION TO HUMAN BIOLOGY (UC:CSU) 4 UNITS

**Prerequisite:** None | **Lecture:** 3 hrs, **Lab:** 3 hrs

The course includes basic biological principles as they apply to humans. The course will provide a foundation for advanced courses in Human Anatomy, Physiology, and Microbiology. Topics include chemical principles, the cell, heredity, human anatomy and physiology, microbiology, pathology, ecology, and bioethics.

### BIOLOGY 006 GENERAL BIOLOGY I (UC:CSU) 5 UNITS

**Prerequisite:** CHEM 051 or CHEM 065 or CHEM 101

**Lecture:** 3 hrs, **Lab:** 6 hrs

Examines the unifying principles of biology through the study of biological molecules, cell structure and function, metabolism, inheritance, molecular genetics, evolution and population genetics. Together with Biology 7, this is a fundamental course for biology majors.

**BIOLOGY 007 GENERAL BIOLOGY II – (UC:CSU) 5 UNITS**

**Prerequisite:** None | **Advisory:** BIOLOGY 006 | **Lecture:** 3 hrs, **Lab:** 6 hrs

Examines the unifying principles of biology through the study of phylogeny, taxonomy, animal and plant structure/function, population biology and ecology. Together with Biology 6, this is a fundamental course for biology majors.

**BIOTECH 002 BIOTECHNOLOGY I – (CSU) 4 UNITS**

**Prerequisite:** None | **Advisories:** BIOLOGY 003 & and CHEM 051 or CHEM 065 | **Lecture:** 2 hours, **Lab:** 6 hours

An introduction to the field of biotechnology. Students examine the fundamentals of cellular and molecular biology and are introduced to basic biotechnology laboratory skills, including documentation, safety, solution and buffer preparation, quality control and bioethics. Students develop proficiency in aseptic technique, spectrophotometry, microscopy and centrifugation.

**BSICKSL 001CE READING AND MATHEMATICS BASIC SKILLS**

NONCREDIT

**Prerequisite:** None | **Lecture:** 3 hours

This is a developmental course in reading and mathematics skills. Students will be introduced to essential reading skills including phonemic awareness, phonics, fluency, vocabulary development, and comprehension skills. Students will also be introduced to basic arithmetic computational and problem-solving skills in addition, subtraction, multiplication, and division of whole numbers. This course moves at an appropriate pace for persons with learning disabilities.

**BSICKSL 002CE DEVELOPING ENGLISH COMPOSITION SKILLS**

NONCREDIT

**Prerequisite:** None | **Lecture:** 3 hours

This is a developmental course in writing skills. Students will be introduced to the fundamentals of English usage, sentence mechanics, and sentence formation. This course moves at an appropriate pace for persons with learning disabilities.

**BSICKSL 023CE COLLEGE AND SCHOLASTIC ASSESSMENT PREPARATION – NONCREDIT**

**Prerequisite:** None | **Lecture:** 4 hours

This is an open-entry course designed to provide an overview and review in Math, English, and Study Skills. The content in this course may be adapted for cohorts preparing for specific assessments or as intensive college or career preparation workshop in specific content areas in English, Math, or Study Skills.

**BSICKSL 025CE BASIC SKILLS IN COMPUTERS – NONCREDIT**

**Prerequisite:** None | **Lab:** 3 hours

This is a basic computer skills class for students with no previous computer training or experience. It is designed to assist students understand the basic computer hardware and the computer operating system. The class will also focus on developing basic computer literacy skills using Microsoft Office. Students will also become familiar with online search engines and tools and will be able to conduct a simple on-line search and use e-mail to send and receive messages.

**BSICKSL 083CE GED/HISET PREPARATION: LITERATURE AND THE ARTS**  
NONCREDIT

**Prerequisite:** None | **Lecture:** 3 hrs

This course is designed to prepare students for the General Educational Development (GED) Reasoning Through Language Arts component of the exam. Skills competencies include ability to read and analyze material from a variety of informational and literary sources. Students will use the evidence found in source content to develop and write convincing arguments in a cohesive and coherent format and demonstrate fluency in grammar and the conventions of English.

**BSICKSL 084CE GED/HISET PREPARATION: MATHEMATICS**  
NONCREDIT

**Prerequisite:** None | **Lecture:** 3 hours

This course is designed to prepare students for the General Educational Development (GED): Mathematics Test. Skill competencies include math computation and applied math for statistics and data analysis, probabilities, algebraic and geometric functions, problem solving and reasoning.

**BSICKSL 085CE GED/HISET PREPARATION: SCIENCE – NONCREDIT**

**Prerequisite:** None | **Lecture:** 3 hours

This course is designed to prepare students for the General Educational Development (GED): Science Test. Topics covered in the course include life science, physical science, chemistry, and earth and space science.

**BSICKSL 086CE GED/HISET PREPARATION: SOCIAL STUDIES**  
NONCREDIT

**Prerequisite:** None | **Lecture:** 3 hours

This course is designed to prepare students for the General Educational Development (GED): Social Studies Test. Topics covered in the course include Civics and Government, U.S. History, Economics, and Geography and the World.

**BSICKSL 087CE GED/HISET PREPARATION: WRITING SKILLS** NONCREDIT

**Prerequisite:** None | **Lecture:** 3 hours

This course is designed to prepare students for the writing components of the General Educational Development (GED) Examination. Skills competencies include ability to analyze arguments and gather evidence found in source content, develop and organize writing in a cohesive and coherent format, and demonstrate fluency with conventions of English.

**BSICKSL 091CE JOB READINESS 100 –NONCREDIT**

**Prerequisite:** None | **Lecture:** 4 hours

This course focuses on developing workplace readiness skills for the 21st Century that enable students to optimize their strengths and attain their career goals. This course prepares students to successfully collaborate with co-workers in diverse settings by identifying their existing leadership and interpersonal skills, practicing tools for effective communication, and crafting an ethical code of conduct that can be applied to respect differences, resolve conflicts, and find commonality to enhance the work environment. Students also develop their oral presentation skills.

**BSICKL 200CE COLLEGE READINESS: MATH SKILLS I – NONCREDIT**

**Prerequisite:** None | **Lecture:** 2 hrs

This foundational level course is designed to build math competency skills that meet the Common Core State Standards for Mathematics and prepare students for High School Equivalency examinations, vocational, and college readiness coursework. Competencies include basic arithmetic skills: addition, subtraction, multiplication, and division of whole numbers, negative numbers, and an introduction to fractions and decimals problems. Students will focus on computational and problem-solving skills in each area.

**BSICKL 201CE COLLEGE READINESS: MATH SKILLS II – NONCREDIT**

**Prerequisite:** None | **Lecture:** 2 hrs

This basic level course is designed to build math competency skills that meet the Common Core State Standards for Mathematics and prepare students for High School Equivalency examinations, vocational, and college readiness coursework. Competencies include using computation and applied math skills to solve problems in addition, subtraction, multiplication, and division of fractions, decimals, percentages, and ratios and proportions. Students will focus on computational and problem-solving skills in each area.

**BSICKL 202CE COLLEGE READINESS: MATH SKILLS III – NONCREDIT**

**Prerequisite:** None | **Lecture:** 2 hrs

This intermediate level course is designed to build math competency skills that meet the Common Core State Standards for Mathematics and prepare students for High School Equivalency examinations and college and career readiness. Competencies include integers, exponents and roots, algebraic expressions and formulas, equations, and an introduction to geometry. Students will focus on computational and problem-solving skills in each area.

**BSICKL 204CE COLLEGE READINESS: WRITING SKILLS I – NONCREDIT**

**Prerequisite:** None | **Lecture:** 2 hrs

This foundational level course is designed to build writing skills that meet the Common Core State Standards for Language Arts, Writing, and prepare students for High School Equivalency examinations and college and career readiness. Skill competencies include English usage, sentence mechanics, and sentence formation.

**BSICKL 205CE COLLEGE READINESS: WRITING SKILLS II – NONCREDIT**

**Prerequisite:** None | **Lecture:** 2 hrs

This basic level course is designed to build writing skills required to meet the Common Core State Standards for Language Arts, Writing, and prepare students for High School Equivalency examinations and college and career readiness. Skill competencies include English usage, sentence mechanics, sentence formation and paragraph development.

**BSICKL 206CE COLLEGE READINESS: WRITING SKILLS III – NONCREDIT**

**Prerequisite:** None | **Lecture:** 2 hrs

This intermediate level course is designed to build writing skills required to meet the Common Core State Standards for Language Arts, Writing, and prepare students for High School Equivalency examinations and college and career readiness. Skill competencies include English usage, sentence mechanics, sentence formation, paragraph development, and composition writing.

**BSICKL 208CE COLLEGE READINESS: READING SKILLS I – NONCREDIT**

**Prerequisite:** None | **Lecture:** 2 hrs

This foundational level course is designed to build reading skills required to meet the Common Core State Standards for Language Arts, Reading, and prepare students for High School Equivalency examinations and college and career readiness. Skill competencies include constructing meaning, recalling information, interpreting graphic information, evaluating and extending meaning, and understanding and using vocabulary in context.

**BSICKL 209CE COLLEGE READINESS: READING SKILLS II – NONCREDIT**

**Prerequisite:** None | **Lecture:** 2 hrs

This basic level course is designed to build reading skills required to meet the Common Core State Standards for Language Arts, Reading, and prepare students for High School Equivalency examinations and college and career readiness. Skill competencies include developing reading comprehension, analysis, and interpretation skills including inferencing, predicting outcome, drawing conclusions, comparing and contrasting, recognizing cause and effect, and paraphrasing.

**BSICKL 210CE COLLEGE READINESS: READING SKILLS III – NONCREDIT**

**Prerequisite:** None | **Lecture:** 2 hrs

This intermediate level course is designed to build reading skills required to meet the Common Core State Standards for Language Arts, Reading, and prepare students for High School Equivalency examinations and college readiness. Skill competencies include developing strategies that assist students in understanding and responding to intermediate-level reading material. Skills include evaluating different genres of readings, summarizing, questioning validity and relevance of information, and analyzing and synthesizing information.

**CHEM 051 FUNDAMENTALS OF CHEMISTRY I – (UC:CSU) 5 UNITS**

**Prerequisite:** None | **Lecture:** 4 hrs, **Lab:** 3 hrs

**NOTE:** It is not intended for students planning to take Chemistry 101. A course in basic concepts of inorganic chemistry designed for students with interests in nursing, nutrition, dietetics, food science, and environmental and occupational health majors, and for liberal arts students in need of a laboratory course in physical sciences.

**CHEM 101 GENERAL CHEMISTRY I – (UC:CSU) 5 UNITS**

**Prerequisites:** CHEM 065 or Placement Exam

**Lecture:** 3 hrs, **Lab:** 6 hrs

A study of fundamental chemical principles and theories, as related to the structure of matter, with special emphasis on stoichiometry, atomic structure, periodic table, chemical bonding, solutions, acids and bases, oxidation-reduction, and properties of gases.

**CHICANO 057 CHICANAS AND CHICANOS IN FILM (CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

This course examines how film industry has depicted Chicanas and Chicanos through the medium of film from the early twentieth century to present day. Students analyze and interpret the techniques, contents, and historical context of relevant films. Analysis of the image of the Chicana and Chicano as presented in films and documentaries are summarized and interpreted by students.

**CH DEV 001 CHILD GROWTH & DEVELOPMENT – (UC:CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

*NOTE: Students must show proof of a current negative TB test (Mantoux Test) or chest x-ray within the last twelve months, plus proof of immunizations for measles, (MMR) pertussis (Tdap) and influenza as required by the Department of Social Services Child Care Licensing Division and the Department of Health for students doing observations or field work/practicum in early childhood settings.*

Examines the major physical, psychosocial, and cognitive/ language developmental milestones for children, both typical and atypical, from conception through adolescence. Emphasis is placed 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.

**CH DEV 007 INTRODUCTION TO CURRICULUM IN EARLY CHILDHOOD EDUCATION – (CSU) 3 UNITS**

**Prerequisite:** CH DEV 002 | **Lecture:** 3 hrs

*NOTE: Students must show proof of a current negative TB test (Mantoux test) or chest x-ray within the last twelve months, plus proof of immunizations for measles, (MMR) pertussis (Tdap) and influenza as required by the Department of Social Services Child Care Licensing Division and the Department of Health for students doing observations or field work/practicum in early childhood settings.*

Exploration of appropriate curriculum and environments for young children. Students examine a teacher's role in supporting development and positive learning experiences for all young children using observation and assessment strategies and emphasizing the essential role of play. Planning, implementation and evaluation of curriculum includes but is not limited to: language and literacy, social and emotional learning, sensory learning, art and creativity, math, natural and physical sciences.

**CH DEV 010 HEALTH, SAFETY & NUTRITION – (CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

*NOTE: Students must show proof of a current negative TB test (Mantoux Test) or chest x-ray within the last twelve months, plus proof of immunizations for measles, (MMR) pertussis (Tdap) and influenza as required by the Department of Social Services Child Care Licensing Division and the Department of Health for students doing observations or field work/practicum in early childhood settings.*

Study of the laws, regulations, standards, policies, procedures and early childhood curriculum related to child health, safety and nutrition. Key components that ensure physical health, mental health, and safety for children and staff are identified along with importance of collaboration with families and health professionals. The interrelationship of health, safety and nutrition and the impact on children's growth and development are key areas of focus.

**CH DEV 011 CHILD, FAMILY & COMMUNITY – (CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

An examination of the developing child in a societal context focusing on the interrelationship of family, school and community and emphasizing historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families.

**CH DEV 014 DUAL LANGUAGE DEVELOPMENT IN THE EARLY YEARS (CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

*NOTE: Students must show proof of a current negative TB test (Mantoux Test) or chest x-ray within the last twelve months, plus proof of immunizations for measles, (MMR) pertussis (Tdap) and influenza as required by the Department of Social Services Child Care Licensing Division and the Department of Health for students doing observations or field work/practicum in early childhood settings.*

Exploration of language acquisition and dual language development throughout early childhood. Current research will be reviewed as it relates to social and educational policies and practices, considering influences of families, cultures, schools, and communities.

**CH DEV 015 INTRODUCTION TO CURRICULUM FOR DUAL LANGUAGE LEARNERS– (CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

*NOTE: Students must show proof of a current negative TB test (Mantoux Test) or chest x-ray within the last twelve months, plus proof of immunizations for measles, (MMR) pertussis (Tdap) and influenza as required by the Department of Social Services Child Care Licensing Division and the Department of Health for students doing observations or field work/practicum in early childhood settings.*

Exploration of Best Practices in Early Childhood settings as they relate to dual language learners. Focus will be on knowledge and competencies required to meet the developmental needs of dual language learners and their families. Strategies for developing resources, curriculum, creative experiences and authentic assessment will be included.

**CH DEV 023 PRACTICUM IN CHILD DEVELOPMENT II – (CSU) 4 UNITS**

**Prerequisites:** CH DEV 022 and TB clearance | **Lecture:** 2 hrs, **Lab:** 6 hrs

*NOTE: Students must show proof of a current negative TB test (Mantoux test) or chest x-ray within the last twelve months, plus proof of immunizations for measles (MMR), pertussis and influenza (Tdap).*

*NOTE: Total of 90 hours of supervised field experience plus 18 hours of curriculum/professional development.*

The second semester of practicum teaching experience must relate to the area of specialization being earned. This course provides the practical application of theories covered in prerequisite courses in an instructor approved setting.

**CH DEV 031 INFANT/TODDLER CARE AND EDUCATION – 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

*NOTE: Students must show proof of a current negative TB test (Mantoux test) or chest x-ray within the last twelve months, plus proof of immunizations for measles, (MMR) pertussis (Tdap) and influenza as required by the Department of Social Services Child Care Licensing Division and the Department of Health for students doing observations or field work/practicum in early childhood settings.*

Applies current theory and research to the care and education of infants and toddlers in group settings. Examines essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months.

**CH DEV 039 ADMINISTRATION II: PERSONNEL AND LEADERSHIP IN EARLY CHILDHOOD EDUCATION – (CSU) 3 UNITS**

**Prerequisite:** CH DEV 038 | **Lecture:** 3 hrs

*NOTE: Students must show proof of a current negative TB test (Mantoux Test) or chest x-ray within the last twelve months, plus proof of immunizations for measles, (MMR) pertussis (Tdap) and influenza as required by the Department of Social Services Child Care Licensing Division and the Department of Health for students doing observations or field work/practicum in early childhood settings.*

Effective strategies for personnel management and leadership in early care and education settings. Includes legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program.

**CH DEV 044 EARLY INTERVENTION FOR CHILDREN WITH SPECIAL NEEDS – (CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

*NOTE: Students must show proof of a current negative TB test (Mantoux Test) or chest x-ray within the last twelve months, plus proof of immunizations for measles, (MMR) pertussis (Tdap) and influenza as required by the Department of Social Services Child Care Licensing Division and the Department of Health for students doing observations or field work/practicum in early childhood settings.*

Designed for students interested in working with young children with special needs and their families. Instruction focuses on accommodating and adapting the physical environment, instructional strategies and curriculum to meet the needs of differently abled children from birth to preschool.

**CH DEV 045 PROGRAMS FOR CHILDREN WITH SPECIAL NEEDS (CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

*NOTE: Students must show proof of a current negative TB test (Mantoux Test) or chest x-ray within the last twelve months, plus proof of immunizations for measles, (MMR) pertussis (Tdap) and influenza as required by the Department of Social Services Child Care Licensing Division and the Department of Health for students doing observations or field work/practicum in early childhood settings.* Overview of programs providing special education services for children with special needs focusing on preschool through school age. Includes a study of various programs, legislation, characteristics of exceptionalities and educational implications. Observation in schools will be required.

**CH DEV 055 HOME VISITATION PROGRAMS – (CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

*NOTE: Students must show proof of a current negative TB test (Mantoux Test) or chest x-ray within the last twelve months, plus proof of immunizations for measles, (MMR) pertussis (Tdap) and influenza as required by the Department of Social Services Child Care Licensing Division and the Department of Health for students doing observations or field work/practicum in early childhood settings.*

Examines the emerging field of home visitation as it relates to programs offering in home support and intervention services. Prepares the student to conduct home visitations in a variety of contexts including early intervention, family support systems, gerontology and publicly funded early childhood programs.

**CH DEV 058 TRANSITIONAL KINDERGARTEN – (CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

*NOTE: Students must show proof of a current negative TB test (Mantoux Test) or chest x-ray within the last twelve months, plus proof of immunizations for measles, (MMR) pertussis (Tdap) and influenza as required by the Department of Social Services Child Care Licensing Division and the Department of Health for students doing observations or field work/practicum in early childhood settings.*

An exploration of transitional kindergarten programs in relation to children's developmental needs, curriculum models, the role of the teacher, and the context and structure of the learning environment.

**CINEMA 107 UNDERSTANDING MOTION PICTURES – (CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

Students will examine a survey of motion pictures as an art form, entertainment industry, and communication medium via screenings, lectures, and readings about 'classic' and contemporary films, American and foreign, theatrical and non-theatrical. Students will also conduct research specific to film and explore analytical/critical discussions that show an understanding of film studies and aesthetics.

**CINEMA 125 FILM PRODUCTION WORKSHOP – (CSU) 3 UNITS**

**Prerequisite:** CINEMA 107 and MUTLIMD 610 | **Advisory:** MULTIMD 600 | **Lecture:** 2 hrs, **Lab:** 2 hrs

This is an advanced course in practical filmmaking, with each student required to produce/write/direct and tech a professional short film with sound, as well as crew for other assigned films. Topics include pre-production planning, camera operation, location lighting, sound and editing. Emphasis is on producing, film and digital cinematography and lighting in studio and on location.

**COMM 102 ORAL COMMUNICATION II – (UC:CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

Introduction to advanced phases of critical thinking, research, and public speaking. Course includes comprehension of structure, evaluation of arguments, researching and presenting evidence, language usage, and evaluation of fallacious reasoning. Adherence to ethics stressed in all communication settings.

**COMM 121 THE PROCESS OF INTERPERSONAL COMMUNICATION (UC: CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

Designed to provide skills and fuller understanding of how individuals cope with social interactions that build, maintain or dissolve interpersonal relationships with friends, significant others, family members and coworkers.

**COMM 151 SMALL GROUP COMMUNICATION – (UC:CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

Provides an analysis of the purposes, principles, and types of group communication processes. Development of individual skills in leadership and problem solving is achieved by responsible group participation.

**CIS 101 INTRODUCTION TO COMPUTERS AND THEIR USES (CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs, **Lab:** 1 hr

Students learn to use common productivity applications and will describe the uses, concepts, techniques and terminology of computing. Students will discover the possibilities and problems of computer use in historical, economical and social contexts. Students develop college-level and workplace skills in word processing, spreadsheets and presentation graphics in a practical lab environment, along with a conceptual view of databases, visual programming, and Internet methods and procedures.

**CIS 285 DIRECTED STUDY - COMPUTER SCIENCE-INFORMATION TECHNOLOGY – (CSU) 2 UNITS**

*(formerly CO SCI 285 Directed Study – Computer Science-Information Technology)*

**Prerequisite:** None. | **Lecture:** 2 hrs

Students study Computer Information Systems on a contract basis under the direction of a supervising instructor.

**CS 102 -PROGRAMMING LOGIC AND DESIGN - (CSU) 3 UNITS**

*(formerly CO SCI 407 Programming Logic and Design Introduction to Programming)*

**Prerequisite:** None. | **Advisory:** CO SCI 401 or CS 101

**Lecture:** 2 hrs, **Lab:** 2 hrs

Covers basic concepts of computer hardware, software, and information representation. Introduces concepts necessary to analyze, design, code, test, and document programs using top-down structured programming techniques. Introduces Object-Oriented Programming. Hands-on labs using high-level language reinforces structured programming and object-oriented programming concepts.

**CS 113 PROGRAMMING IN JAVA – (CSU) 3 UNITS**

*(formerly CO SCI 452 Programming in Java)*

**Advisories:** CO SCI 407 or CS 102 | **Lecture:** 2 hrs, **Lab:** 2 hrs

Covers Java language and object-oriented programming paradigm. Topics include control structures, methods, Java classes, overloading, object references, Java library packages, and file I/O.

**CS 213 ADVANCED PROGRAMMING IN JAVA – (CSU) 3 UNITS**

**Prerequisite:** CS 113 or CS 116 or CO SCI 439

**Lecture:** 2 hrs, **Lab:** 2 hrs

Covers Java language and object-oriented programming paradigm. Topics include control structures, methods, Java classes, overloading, object references, inheritance, polymorphism, Java library packages, exception handling, file I/O (Input/Output) and recursion. Introduces data structures such as arrays, lists and stacks.

**CLN ART 150 CHEFS TRAINING FOR APPRENTICESHIP I – (CSU) 2 UNITS**

**Prerequisite:** CLN ART 101 | **Lecture:** 1 hr, **Lab:** 3 hrs

Provides supervised internship experience within the Culinary Arts Institute. Internship provides students with hands-on training and experience in working on the line in The Mission Café (AKA The Servery), customer service, catering, special events and prepares them for their externship experience. Students learn skills required for commercial, restaurant and hotel establishments. Students will complete 108 TBA hours as part of the class.

**DANCETQ 151 DANCE FOR FILM AND STAGE I – (CSU) 1 UNIT**

**Prerequisite:** None | **Lab:** 3 hrs

This course will cover introductory level dance steps and techniques commonly found in musical theater productions including jazz walks, chassé, grapevine, jazz square, pivot turn, kick ball change, and three-step turn. The course will introduce students to various choreographers and styles of dance found in film and musical theater productions.

**DANCETQ 152 DANCE FOR FILM AND STAGE II – (CSU) 1 UNIT**

**Prerequisite:** DANCETQ 151 | **Lab:** 3 hrs

Beginning level dance steps and techniques commonly found in musical theater productions including jazz walks, chassé, grapevine, jazz square, pivot turn, kick ball change, and three-step turn. The course will introduce students to various choreographers and styles of dance found in film and musical theater productions.

**DRAFT 016 BLUE PRINT READING I - (CSU) 2 UNITS**

**Prerequisite:** None | **Lecture:** 1 hr, **Lab:** 2 hrs

The principles and practices of blueprint reading including the study of standard symbols and their applications, and interpretation of a variety of drawings.

**DRAFT 017 BLUE PRINT READING II - (CSU) 2 UNITS**

**Prerequisite:** DRAFT 016 | **Lecture:** 1 hr, **Lab:** 2 hrs

This course covers three-dimensional detail prints. Training is given in laying out reference lines and center points on various industrial parts involving simple linear and angular dimensions. Advanced terminology and symbol usage are stressed. A limited amount of drawing practices is included.



**EARTH 002 EARTH SCIENCE LABORATORY – 2 UNITS**

**Prerequisite:** None **Corequisite:** EARTH 001

**Lecture:** 0.5 hr, **Lab:** 2.5 hrs

Earth Science Laboratory supplements Earth Science Lecture. Students are introduced to the study of Earth materials by learning to identify common minerals and rocks. Interpretations of processes acting on and within the Earth are approached through the study of information contained in maps, aerial photographs, and data sets collected from a variety of Earth-sensing instruments.

**ECON 001 PRINCIPLES OF ECONOMICS I – (UC:CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

Introductory course in the principles of microeconomic theory, including economic analysis of the firm and resource allocation; analysis of the laws of supply and demand; market structures of the American economy; price theory; current domestic economic issues.

**ECON 002 PRINCIPLES OF ECONOMICS II – (UC:CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

Introductory course in the principles of macroeconomic theory. Measurement of aggregate economic performance, including GNP and national income, money and banking business cycle, role of government and the Federal Reserve System (fiscal and monetary policies), economic growth and stability, international trade, and economics of under development are covered in this course.

**EGD TEK 111 2-D COMPUTER-AIDED DRAFTING – (CSU) 3 UNITS**

**Prerequisite:** EGD TEK 101 or EGD TEK 102 | **Lecture:** 2 hrs, **Lab:** 2 hrs

This course is an introductory course in Two-Dimensional Computer-Aided Drafting using AutoCAD. Students learn the basic tools to create and edit a simple drawing. Topics include object construction, object properties, layers, orthographic projections, auxiliary views, parametric tools, basic dimensioning, template building, and plotting.

**EGD TEK 131 CAD-ADVANCED APPLICATIONS 3-D – 1 UNIT**

**Prerequisite:** EGD TEK 121 | **Lab:** 3 hrs

This course builds on the skills acquired in 2-D and 3-D CAD applications. The course explores advanced computer-aided design techniques using SolidWorks software such as Mold Tools, Simulation and Surface modeling, also students are prepared for the Certified SolidWorks Associate (CSWA) exam. During these training programs, students acquire advanced skills in using the software and design techniques for 3-D structures in various examples toward design, manufacturing, and mechanical applications.

**ENG GEN 122 PROGRAMMING AND PROBLEM-SOLVING IN MATLAB – (CSU) 3 UNITS**

**Prerequisite:** MATH 265 | **Lecture:** 2 hrs, **Lab:** 3 hrs

This course utilizes the MATLAB environment to provide students with a working knowledge of computer-based problem-solving methods relevant to science and engineering. It introduces the fundamentals of procedural and object-oriented programming, numerical analysis, and data structures. Examples and assignments in the course are drawn from practical applications in engineering, physics, and mathematics.

**ENG GEN 131 STATICS – (CSU) 3 UNITS**

**Prerequisite:** PHYSICS 037 and MATH 266 | **Lecture:** 3 hrs

This engineering course covers how to apply vector analysis of forces and moments to determine the equilibrium conditions in trusses, frames, and machines. It also covers center of mass, centroids, friction, and moment of inertia.

**ENG SUP 121 PLANE SURVEYING I - (CSU) 3 UNITS**

**Prerequisite:** MATH 240 or MATH 240S | **Lecture:** 2 hrs, **Lab:** 3 hrs

This is a beginning course in plane surveying. Topics include horizontal linear measurements using pacing, steel tape, stadia and electronic distance measurement (EDM); circuit and profile differential leveling; measurement of horizontal and vertical angles; computation of azimuth, bearing, latitude, departure and coordinates and area of a traverse; balancing a closed traverse using the compass rule and rotation adjustments of a closed traverse; and introduction to geographic information system (GIS) and global positioning system (GPS). Technical lectures also include topics pertaining to technical writing and presentations. An introductory topic in terrain modeling using Microstation and/or AutoCAD software is demonstrated and field work is also performed including a field demonstration of unmanned aerial systems for mapping and terrain analysis purposes.

**ENG SUP 200 BUSINESS PRACTICES FOR LAND SURVEYORS & CIVIL ENGINEERS - 1 UNIT**

**Prerequisite:** MATH 240 or MATH 240S | **Lecture:** 0.5 hr, **Lab:** 1.5 hrs

This course teaches students fundamental business practices used in technical career opportunities in land development. Such skills include: An introduction to business practices in land development, professional conduct and ethics, proposal writing, office and field research and planning, quantity takeoff, pricing and cost estimates, and technical forms of communications.

**ENG SUP 221 PLANE SURVEYING II - 3 UNITS**

**Prerequisite:** ENG SUP 121 | **Lecture:** 2 hrs, **Lab:** 3 hrs

This is an advanced course in plane surveying. Topics include topographic survey, earthmoving quantity take-off, horizontal and vertical curves, construction staking, real property survey using electronic data measurement (EDM), application of global positioning system (GPS) and geographic information systems (GIS), and green surveys including the usage and practical applications of unmanned aerial systems (UAS's). Field work is performed.

**ENG SUP 224 LAND SURVEYOR-IN-TRAINING (LSIT) REVIEW - 2 UNITS**

**Prerequisite:** None | **Lecture:** 1 hr, **Lab:** 3 hrs

This course, in conjunction with Engineering Support 225, prepares students for the State of California's Land Surveyor in Training (LSIT) certificate which is the first step required under California law towards becoming licensed as a Professional Land Surveyor. In this course, students review math topics as they apply to plane surveying. Some topics covered in this course are field data and image data acquisition, development of GIS maps, boundary and cadastral law.

**ENG SUP 225 BOUNDARY CONTROL FOR SURVEYORS - 2 UNITS**

**Prerequisite:** None | **Lecture:** 1 hr, **Lab:** 3 hrs

This course, in conjunction with Engineering Support 224, prepares students for the State of California's Land Surveyor in Training (LSIT) certificate which is the first step required under California law towards becoming licensed as a Professional Land Surveyor. In this course, students are introduced to the history and concepts of boundary control surveys and the role of the surveyor with field applications. The usage of unmanned aerial systems in boundary surveys is also demonstrated.

**ENV SCI 002 THE HUMAN ENVIRONMENT: BIOLOGICAL PROCESSES (UC:CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

Introduces students to the biological aspects of our environmental systems. Study focuses on our large-scale systems including populations and ecosystems and small-scale issues such as nutrition and toxicity. Global population will be examined through the lens of population dynamics and carrying capacity.

**ENGLISH 101 COLLEGE READING & COMPOSITION I - (UC:CSU) 3 UNITS**

**Prerequisite:** E.S.L. 008 | **Lecture:** 3 hrs

Develops proficiency in college-level reading and writing through the application of the principles of rhetoric, argument, and critical thinking. Students will write expository essays based on college-level readings. Emphasis is placed on the research paper. This course requires the writing of a minimum of 6000 words in essays and a research paper.

**E.S.L. 006A COLLEGE E.S.L. 6A: WRITING/GRAMMAR (CSU) 6 UNITS**

**Prerequisite:** E.S.L. 005A | **Lecture:** 6 hrs

*NOTE: Class is graded pass/no-pass*

This course is designed for students at the advanced level of English language acquisition and provides instruction in writing extended essays in a variety of ways, analysis of readings, grammar development, punctuation and spelling improvement, as well as verbal communication.

**E.S.L. 010 ADVANCED INTEGRATED LANGUAGE SKILLS – (NDA) 1 UNIT**

**Prerequisites:** ENGLISH 028 or E.S.L. 008 | **Advisory:** ENGLISH 101

**Lab:** 3 hrs

*NOTE: Student receives a letter grade*

This is an advanced integrated language skills course designed to support ESL students in English 101. Students develop critical thinking, grammar, close reading and writing skills. Techniques for researching, documenting, analyzing, and using text-based evidence from fiction and non-fiction texts are emphasized.

**ESLCVCS 013CE – ESL AND CIVICS IV - NONCREDIT**

**Prerequisite:** None | **Lecture:** 3 hrs

This is an open-entry, open-exit communicative-based course designed to introduce high-beginning level non-native adult learners to U.S. history and government and promote civic participation. This course will cover U.S. geography, American symbols and celebrations, the three branches of government, and types of government including state and local government. Students will also begin preparing for the U.S. Citizenship and Naturalization Oral Test.

**ESLCVCS 014CE – ESL AND CIVICS V - NONCREDIT**

**Prerequisite:** None | **Lecture:** 3 hrs

This is an open-entry, open-exit course designed to introduce intermediate level non-native learners to U.S. history and government and promote civic participation. This course will focus on introducing students to the important benchmarks in U.S. history beginning with the first North Americans until the present time. Students will also continue preparing for the U.S. Citizenship and Naturalization Oral Test.

**HLTH OCC 062 SKILL SET FOR THE HEALTHCARE PROFESSIONAL – (CSU) 2 UNITS**

**Prerequisite:** None | **Lecture:** 1 hr, **Lab:** 3 hrs

Health Occupations 62 is an introduction of the concepts and skills that serve as a foundation for the healthcare professions. Topics include hygiene and safety, infection control, basic client monitoring and basic first aid, therapeutic communication and basic health documentation.

**HLTH OCC 063 BASIC MEDICAL TERMINOLOGY, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE HEALTHCARE PROFESSIONAL (CSU) 2 UNITS**

**Prerequisite:** None | **Lecture:** 2 hrs

This basic medical language course will discuss common diseases and injuries and their pharmacological treatment using medical terminology in English and Spanish, when appropriate.

**HLTH OCC 064 CULTURAL AND LEGAL TOPICS FOR THE HEALTHCARE PROFESSIONALS – (CSU) 1 UNIT**

**Prerequisite:** None | **Lecture:** 1 hr

This course provides an overview of the concepts of health and illness, cultural diversity and legal issues that affect the health care professionals.

**HLTH OCC 065 FUNDAMENTALS FOR THE HEALTHCARE PROFESSIONAL (CSU) 2.5 UNITS**

**Prerequisite:** None | **Lecture:** 2.5 hrs

Health Occupations 065 explores career options in the health care industry, healthy behavior for health care workers, work ethics, professional resumes and interviewing skills and personality traits of a healthcare professional. There will be an externship during which area employers will introduce students to direct and indirect patient care opportunities.

**HTHTEK 100 INTRODUCTION TO HEALTH INFORMATION (CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 2 hrs, **Lab:** 2 hrs

This course is an introduction to the Health Information Management (HIM) profession and the record keeping practices in alternative health care delivery systems. Emphasis is placed on the development, maintenance, and content of patient health records, including format and documentation requirements, filing and number system, medical staff organization, regulatory and accrediting agencies.

**HTHTEK 103 INTRODUCTION TO BASIC CODING - (CSU) 3 UNITS**

**Prerequisite:** HTHTEK 100 and BIOLOGY 033 or HLTHOCC 063

**Lecture:** 2 hrs, **Lab:** 2 hrs

This course introduces the use of the International Classification of Diseases Clinical Modification (CM) codes for diagnoses and Procedural Coding System (PCS) to code procedures. Students learn to analyze clinical disease processes, use diagnosis and procedural terminology, sequence and assign codes correctly using current coding manuals and computerized encoder.

**HTHTEK 110 AMBULATORY CARE CODING - (CSU) 3 UNITS**

**Prerequisite:** BIOLOGY 033 or HLTHOCC 063 | **Lecture:** 2 hrs, **Lab:** 2 hrs

This course introduces the practice and principles of classification systems utilized in alternate health care facilities. Classification systems studied include Diagnostic and Statistical Manual of Mental Disorders (DSM), Systematized Nomenclature of Medicine (SNOMED), Ambulatory Payment Classification (APC), Healthcare Common Procedural Coding System (HCPCS Level II) used for reimbursement of outpatient services rendered.

**HTHTEK 230 ELECTRONIC HEALTH RECORDS IN THE HEALTH (CSU) 3 UNITS**

**Prerequisite:** CAOT 082 | **Lecture:** 3 hrs

This course is designed to provide health information students with the basic knowledge and skills necessary to use electronic health record (EHR) systems in the healthcare setting. The importance of national, regional, and state initiatives will be discussed in addition to practical experience using software.

**IND TEK 103 TECHNICAL WRITING AND COMMUNICATION - 2 UNITS**

**Prerequisite:** None | **Lecture:** 1 hr, **Lab:** 2 hrs

This course introduces the principles and practices of writing a range of technical documents including emails, letters, technical evaluations and reports, and academic and scientific papers used in the engineering, science, and technology fields. The use of graphical information such as tables and charts are covered as well as technical resumes, letters, and instruction and operation manuals.

**INTRDGN 112 SUSTAINABLE DESIGN STANDARDS AND CERTIFICATIONS I – (CSU) 3 UNITS**

**Prerequisite:** None. **Advisory:** INTRDGN 111 | **Lecture:** 3 hrs

This course covers the California Green Building Standards Code (CALGreen) and Leadership in Energy and Environmental Design (LEED). CALGreen AND LEED requirements for commercial and residential projects will be covered including site selection, water and energy efficiency, material selection, and indoor environmental quality. This course is designed to prepare students to pass the LEED Green Associate exam.

**INTRDGN 113 SUSTAINABLE DESIGN STANDARDS AND CERTIFICATIONS II – (CSU) 3 UNITS**

**Prerequisite:** None. **Advisory:** INTRDGN 111 | **Lecture:** 3 hrs

This course covers the WELL Building and Passive House building rating systems. Strategies for designing a WELL Building office interior and a Passive House compliant single family home will be covered.

**INTRDGN 114 INTERIOR DESIGN MATERIALS, STANDARDS AND SPECIFICATIONS – (CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

This course covers specifications of paints, finishes, flooring materials, both hard and soft, walls, ceilings, moldings, doors, and windows for residential and commercial applications. Students learn about interior products for durability, health, environmental, sustainability, and American Disability Act considerations.

**JOURNAL 100 SOCIAL VALUES IN MASS COMMUNICATION (UC:CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

A general interest survey and evaluation of the mass media in economic, historical, political, psychological and social terms. Focus is to help the media consumer better understand today's mass communications; newspapers, radio, television, motion pictures, magazines, the internet, advertising and public relations. Course content discusses relationships, ethics, rights and responsibilities of media in today's society.

**KIN ATH 563 INTERCOLLEGIATE VOLLEYBALL-FITNESS & SKILLS TRAINING – (UC:CSU) 1 UNIT (RPT 2)**

**Prerequisite:** None | **Lab:** 3 hrs

Designed for the student athlete. It is intended to provide focused strength and conditioning and flexibility exercises, emphasize safety and injury prevention and present new rules and game plays for volleyball. This class can be scheduled as TBA where the student will setup a class/practice schedule with the instructor for a total of 54 hours.

**LAW 001 BUSINESS LAW I – (UC:CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

Study of the fundamental principles of law as they apply in the business world by examining legal rights and remedies, business torts and crimes, contracts, agency, employment, intellectual property, business structure and negotiable instruments.

**MATH 238A CALCULUS FOR BUSINESS AND SOCIAL SCIENCE I – PART A (CSU) 2.5 UNITS**

**Prerequisite:** MATH 123C or MATH 125 or MATH 134

**Advisory:** MATH 245 | **Lecture:** 2 hrs, **Lab:** 1 hr

A course in Calculus intended for Business and Social Science majors. The following topics and their business applications are included: polynomial, rational, exponential, and logarithmic functions, and differentiation.

**MATH 238B CALCULUS FOR BUSINESS AND SOCIAL SCIENCE I – PART B (CSU) 2.5 UNITS**

**Prerequisite:** MATH 238A | **Advisory:** MATH 245

**Lecture:** 2 hrs, **Lab:** 1 hr

A course in Calculus intended for Business and Social Science majors. The following topics and their business applications are included: polynomial, rational, exponential, and logarithmic functions, integration, and integration by parts.

**MATH 240 TRIGONOMETRY – (CSU) 3 UNITS**

**Prerequisite:** MATH 121 and 123C or MATH 125 or MATH 134

**Lecture:** 3 hrs, **Lab:** 1 hr

Introduces trigonometric functions, their graphs, inverses, and fundamental identities. Trigonometric equations are solved. The laws of sines and cosines; vectors; scalar and vector products are introduced. Polar coordinates and equations are introduced and used to represent complex numbers.

**MATH 245 COLLEGE ALGEBRA – (UC:CSU) 3 UNITS**

**Prerequisite:** MATH 123C or MATH 125 or MATH 134

**Lecture:** 3 hrs, **Lab:** 1 hr

A college-level course in algebra. Topics include the properties of real numbers, relations, functions and their graphs, matrices and determinants, complex numbers, theory of equations, sequences and series, permutations, combinations, and probability.

**MATH 246 COLLEGE ALGEBRA FOR STEM – (UC:CSU) 3 UNITS**

**Prerequisite:** MATH 125 or MATH 134 | **Lecture:** 4 hours

A college-level course in algebra. Topics include the properties of real numbers, relations, functions and their graphs, matrices and determinants, complex numbers, theory of equations, sequences and series, permutations, combinations, probability, and conic sections.

**MATH 261 CALCULUS I – (CSU) 5 UNITS**

**Prerequisite:** MATH 240 and MATH 245 or MATH 260 | **Lecture:** 5 hrs

The first course in differential and integral Calculus of a single variable. Topics include algebraic and transcendental functions; limits and continuity; techniques and applications of differentiation and integration; curve sketching and Fundamental Theorem of Calculus. Primarily for Science, Technology, Engineering & Math majors.

**MATH 262 CALCULUS II – (CSU) 5 UNITS**

**Prerequisite:** MATH 261 | **Lecture:** 5 hrs

The second course in differential and integral Calculus of a single variable. Topics include differentiation and integration of transcendental functions, polar coordinates, specialized methods of integration, parametric equations, and infinite series. Primarily for Science, Technology, Engineering & Math Majors.

**MATH 263 CALCULUS III – (CSU) 5 UNITS**

**Prerequisite:** MATH 262 | **Lecture:** 5 hrs

Third course of calculus. Includes solid analytic geometry, vector analysis, vector valued functions, calculus of functions of multiple variables, partial derivatives, multiple integration, Green's Theorem, Stokes' Theorem, divergence theorem, and an introduction to differential equations.

**MICRO 020 GENERAL MICROBIOLOGY – (UC:CSU) 4 UNITS**

**Prerequisites:** CHEM 051 or 065, and BIOLOGY 003 or 005

**Lecture:** 3 hrs, **Lab:** 3 hrs

Examines microbiological principles related to the morphology, metabolism and genetics of bacteria and distinguishing characteristics of viruses, protozoa, fungi, and multicellular parasites, with applications to human disease. It is intended principally for allied health majors with 3 hours of lab each week.

**MULTIMD 605 STUDIO PRODUCTION – (CSU) 3 UNITS**

**Prerequisite:** None **Lecture:** 2 hrs, **Lab:** 2 hrs

Students write, produce, and direct a series of live-switched video productions. Each student functions as talent or crew in productions produced by classmates. Production protocol learned will include: operation of studio cameras; lighting instruments and control; and operation of control room equipment including switcher, audio mixer, video recording, and character generator as well as directing, writing and producing.

**NURSING 399A NURSE ASSISTANT TRAINING PROGRAM (CSU) 6 UNITS**

**Prerequisite:** None | **Lecture:** 4 hrs, **Lab:** 6 hrs

Will provide students with an introduction to the health care field, working with residents/patients in the long-term care facility and the acute care setting. Emphasis will be given to safety principles, infection control, methods for providing physical care, and emotional and social support. Upon successful completion of this course students will be eligible to take the California's Nurse Assistant Certification Examination.

**PHYSIOL 001 INTRODUCTION TO HUMAN PHYSIOLOGY (UC:CSU) 4 UNITS**

**Prerequisite:** BIOLOGY 003 or BIOLOGY 005, and ANATOMY 001, and CHEM 051 or CHEM 065 or CHEM 101 | **Lecture:** 3 hrs, **Lab:** 3 hrs

Examines the function of the following human systems: integumentary, skeletal, muscular, nervous, circulatory, respiratory, digestive, urinary, endocrine, lymphatic, and reproductive. Labs include many hands-on and computer-assisted applications.

**PSYCH 013 SOCIAL PSYCHOLOGY – (UC:CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

This course examines how individual mental processes and behavior are influenced by the real or implied presence of others. Diverse topics are analyzed, including social cognition, social perception, attitude formation, social influence, interpersonal attraction, group processes, prosocial behavior, aggression, and prejudice.

**PSYCH 052 PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY (UC:CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

This course explores human sexuality from a psychological perspective. Topics include male and female sexual anatomy, sexual arousal and response, gender identity, sexual orientation, love and attraction, effective relationship communication, pregnancy, methods of contraception, sexually transmitted infections, normal versus abnormal sexual behavior, and sexual coercion.

**SOC 013 SOCIETY AND PERSONALITY (UC:CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

Students explore social psychology by focusing on how individuals are influenced by the behavior and presence of others in a sociocultural environment. Topics analyzed include self, identity, attitudes, conformity, persuasion, obedience, altruism, aggression, prejudice and stereotypes, and deviant behaviors.

**SOC 031 SOCIOLOGY OF GENDER – (UC:CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

Examines the social significance of gender in contemporary U.S. society and analyzes the social construction of gender historically within the context of race, class, and sexual orientation. It focuses on social institutions such as the family, religion, education, work, politics, sports, media, criminal justice system, in shaping individual's experiences and identities through the life cycle. Students can also explore ways these social institutions can be transformed through social change.

**SOC 185 DIRECTED STUDY – (CSU) 1 UNIT**

Allows students to pursue Directed Study in the field of Sociology on a contract basis under the direction of an instructor.

**THEATER 110 HISTORY OF THE WORLD THEATER – (UC:CSU) 3 UNITS**

**Prerequisite:** None | **Lecture:** 3 hrs

The study of the world history of theatre from its origins in Ancient Greece through the present day, across the globe. The history and development of theatre and drama are studied in relationship to geographical cultural, political and social conditions of the time. Plays are read for analysis of structure, plot, character and historical relevance.

**EDUCATIONAL PROGRAMS**

**CERTIFICATE OF COMPETENCY**

**Business Calculus Preparation (M039502F)**

The Business Calculus Preparation Certificate of Competency prepares students for the fundamental concepts in business calculus with emphasis on mathematical literacy, and critical thinking and hands-on business application problem solving skills necessary for success in their credit classes.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Use fundamental skills and concepts in precalculus to analyze various functions and solve problems.

REQUIRED COURSES	HOURS
ACAD PR 080CE Supplemental Derivatives and Integrations	9
ACAD PR 245CE College Algebra Fundamentals	36
<b>Total Hours</b>	<b>45</b>

**CERTIFICATE OF COMPETENCY**

**Precalculus Preparation (M039503F)**

The Precalculus Preparation Certificate of Competency prepares students for the fundamental concepts in precalculus with emphasis on critical thinking and mathematical literacy necessary for success in their credit classes.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Use fundamental skills and concepts in precalculus to analyze various functions and solve problems.

REQUIRED COURSES	HOURS
ACAD PR 240CE Trigonometry Fundamentals	36
ACAD PR 245CE College Algebra Fundamentals	36
<b>Total Hours</b>	<b>72</b>

**CERTIFICATE OF COMPETENCY**

**Geometry and Trigonometry Preparation (M039493F)**

The Geometry and Trigonometry Preparation Certificate of Competency prepares students for the fundamental concepts in geometry and trigonometry with emphasis on critical thinking and mathematical literacy necessary for success in their credit classes.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Use fundamental skills and concepts in geometry and trigonometry to analyze and solve real-world problems.

REQUIRED COURSES	HOURS
ACAD PR 121CE Geometry Fundamentals	45
ACAD PR 240CE Trigonometry Fundamentals	36
<b>Total Hours</b>	<b>81</b>

**CERTIFICATE OF ACHIEVEMENT**

**Cloud Computing (M038644D)**

The Cloud Computing program prepares students to design solutions for Infrastructure as a Service (IaaS) architectures by provisioning computing instances, establishing virtual private networks, managing databases and storage within a secure online environment. Students produce dynamic solutions responsive to information and computing technology workloads with on-demand pay-as-you-go pricing allowing flexibility for small business, entrepreneurship and enterprise adoption. Industry certifications are Program Proposal Attributes embedded to prepare for occupations in Cloud Architect, Cloud Support Associate, Cloud Engineer or Cloud Technicians. Some preparation in information technology or computer programming is recommended. This certificate will improve student comprehension in advanced math application skills that are necessary to be successful in entry level transfer math courses and better prepared for higher level math courses.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Design Infrastructure as a Service (IaaS) solutions by provisioning computing instances, establishing virtual private networks, managing databases and storage within a secure online environment.
- Analyze performance metrics of a cloud architecture to respond dynamically to information and computing technology workloads and optimize service costs.
- Collaborate in a team designing business solutions in an industry aligned project.

**REQUIRED CORE**

	<b>UNITS</b>
CIS 192 Introduction to Cloud Computing	3
CIS 193 Database Essentials in Amazon Web Services	3
CIS 194 Computer Engines in Amazon Web Services	3
CIS 195 Security in the Cloud	3
<b>Select two (2) courses:</b>	<b>6</b>
CO SCI 434 Introduction to Oracle: SQL	
CO SCI 453 A+ Certification Preparation	
CO SCI 487 Introduction to Local Area Networks	
CS 102 Programming Logic and Design	
CS 112 Programming in JavaScript	
CS 119 Programming in Python	
<b>Total</b>	<b>18</b>

**CERTIFICATE OF ACHIEVEMENT**

**Engineering Drafting Technician (M039525D)**

This career and technical education program addresses qualifications in engineering drafting related fields that employers are looking for, including being a team player, being an independent and analytical thinker, being a problem solver, being knowledgeable in computer-aided drafting, blueprint reading and surveying. Some of the courses offered in this program will enable the student to become CSWA (Certified SolidWorks Associate) certified.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Demonstrate the ability to read blue prints and draft using a computer aided software.
- Solve engineering drafting related problems using critical thinking.

**REQUIRED COURSES**

	<b>UNITS</b>
CS 101 Introduction to Computer Science	3
DRAFT 016 Blueprint Reading I	2
DRAFT 017 Blueprint Reading II	2
EGD TEK 101 Engineering Graphics	3
EGD TEK 111 2-D Computer-Aided Drafting	3
EGD TEK 121 3-D Computer-Aided Design with SolidWorks	2
EGD TEK 131 CAD-Advanced Applications 3-D	2
ENG SUP 121 Plane Surveying I	3
ENGLISH 101 College Reading & Composition I	3
IND TEK 103 Technical Writing and Communication	2
MATH 240 Trigonometry	
or MATH 240S Trigonometry with Support	3-4
<b>Total</b>	<b>28-29</b>

**CERTIFICATE OF ACHIEVEMENT**

**Family Studies (M036864D)**

**Program Learning Outcomes** – Upon completion, students will be able to:

- Apply professional standards in services to children, parents and families in the home and the community.

**REQUIRED COURSES**

	<b>UNITS</b>
CH DEV 001 Child Growth & Development	3
CH DEV 011 Child, Family & Community	3
FAM &CS 031 Marriage & Family Life	3
FAM &CS 070 Field Experience in Family & Consumer Studies	3
<b>Select two (2) courses:</b>	<b>6</b>
CH DEV 055 Home Visitation Programs	
FAM &CS 006 Challenges of Aging	
PSYCH 041 Life Span Psychology	
SOC 031 Sociology of Gender	
<b>Total</b>	<b>18</b>

**CERTIFICATE OF ACHIEVEMENT**

**Land Surveying Technician I (M039524D)**

This career and technical education is the first level of Surveying Aide program. It aims to prepare the prospective employees to meet and exceed employer’s expectations in engineering surveying related fields. Completion of the program will enable the individuals to start a career in surveying.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Demonstrate the ability to use surveying apparatus.
- Solve basic plane surveying related problems.

REQUIRED COURSES	UNITS
CS 101 Introduction to Computer Science	3
DRAFT 016 Blueprint Reading I	2
EGD TEK 101 Engineering Graphics	3
EGD TEK 111 2-D Computer-Aided Drafting	3
ENG SUP 121 Plane Surveying I	3
ENG SUP 200 Business Practices for Land Surveyors & Civil Engineers	3
ENGLISH 101 College Reading & Composition I	3
IND TEK 103 Technical Writing and Communication	2
MATH 240 Trigonometry	
or MATH 240S Trigonometry with Support	3-4
<b>Total</b>	<b>23-24</b>

**CERTIFICATE OF ACHIEVEMENT**

**Land Surveying Technician II (M039535D)**

This career technical education pathway is the level two of Surveying Aide program, designed to further the individuals' knowledge in plane surveying. The program aims to prepare the prospective employees for LSIT, Land Surveyor-in-training certification.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Demonstrate the ability to use surveying apparatus.
- Solve advanced plane surveying related problems using critical thinking.

REQUIRED COURSES	UNITS
CS 101 Introduction to Computer Science	3
DRAFT 016 Blueprint Reading I	2
EGD TEK 101 Engineering Graphics	3
EGD TEK 111 2-D Computer-Aided Drafting	3
ENG SUP 121 Plane Surveying I	3
ENG SUP 200 Business Practices for Land Surveyors & Civil Engineers	3
ENG SUP 221 Plane Surveying II	1
ENG SUP 224 Land Surveyor-In-Training (LSIT) Review Course	2
ENG SUP 225 Boundary Control for Surveyors	2
ENGLISH 101 College Reading & Composition I	3
IND TEK 103 Technical Writing and Communication	2
MATH 240 Trigonometry	
or MATH 240S Trigonometry with Support	3-4
<b>Total</b>	<b>30-31</b>

**ASSOCIATE IN SCIENCE FOR TRANSFER (AS-T)**

**Chemistry for UC Transfer (M039475H)**

Upon successful completion of the Associate in Science in Chemistry for UC Transfer, students will be prepared to transfer to the University of California system and major in Chemistry.

Completion of 60 UC transferable semester units with a minimum cumulative grade point average of 2.0; a minimum of 12 units must be completed at Los Angeles Mission College. Important: see UC GPA requirements below; the minimum 2.0 GPA is the minimum required for the degree but will NOT meet UC admission requirements.

For admission to a chemistry program in the UC system using this degree’s requirements, students must meet the minimum 3.5 GPA in the major.

Important: For guaranteed admission to a UC campus and major, students may be required to complete the UC campus Transfer Admission Guarantee (TAG) for Chemistry. Students should meet with their counselor for specific requirements and conditions.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Use qualitative and quantitative analysis techniques to solve physical science problems through integration of multiple ideas that demonstrates reasoning completely and clearly.
- Use chemistry principles to evaluate and solve conceptual challenges.
- Perform hypothesis driven laboratory experiments using the appropriate instruments as well as analyze and interpret data to form appropriate conclusions.

REQUIRED CORE	UNITS
CHEM 101 General Chemistry I	5
CHEM 102 General Chemistry II	5
CHEM 211 Organic Chemistry for Science Majors I	5
CHEM 212 Organic Chemistry for Science Majors II	5
MATH 265 Calculus with Analytic Geometry I	5
MATH 266 Calculus with Analytic Geometry II	5
MATH 267 Calculus with Analytic Geometry III	5
MATH 275 Ordinary Differential Equations	3
PHYSICS 037 Physics for Engineers and Scientists I	5
PHYSICS 038 Physics for Engineers and Scientists II	5
PHYSICS 039 Physics for Engineers and Scientists III	5
<b>Total</b>	<b>53</b>

*NOTE: A minimum of 60 units and a cumulative GPA of 2.0 or higher must be completed to earn the Associate Degree. Major courses must each be completed with a grade of C or better. Always consult a counselor for information on program and graduation requirements, residency requirements and transfer information.*

## ASSOCIATE IN SCIENCE FOR TRANSFER (AS-T)

### Physics for UC Transfer (M039476H)

Upon successful completion of the Associate in Science in Chemistry for UC Transfer, students will be prepared to transfer to the University of California system and major in Chemistry.

Completion of 60 UC transferable semester units with a minimum cumulative grade point average of 2.0; a minimum of 12 units must be completed at Los Angeles Mission College. Important: see UC GPA requirements below; the minimum 2.0 GPA is the minimum required for the degree but will NOT meet UC admission requirements.

For admission to a chemistry program in the UC system using this degree's requirements, students must meet the minimum 3.5 GPA in the major.

Important: For guaranteed admission to a UC campus and major, students may be required to complete the UC campus Transfer Admission Guarantee (TAG) for Chemistry. Students should meet with their counselor for specific requirements and conditions.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Use qualitative and quantitative analysis techniques to solve physical science problems through integration of multiple ideas that demonstrates reasoning completely and clearly.
- Understand physics principles to evaluate and solve conceptual challenges.
- Perform hypothesis driven laboratory experiments using the appropriate instruments as well as analyze and interpret data to form appropriate conclusions.

REQUIRED CORE	UNITS
CHEM 101 General Chemistry I	5
CHEM 102 General Chemistry II	5
MATH 265 Calculus with Analytic Geometry I	5
MATH 266 Calculus with Analytic Geometry II	5
MATH 267 Calculus with Analytic Geometry III	5
MATH 270 Linear Algebra	3
MATH 275 Ordinary Differential Equations	3
PHYSICS 037 Physics for Engineers and Scientists I	5
PHYSICS 038 Physics for Engineers and Scientists II	5
PHYSICS 039 Physics for Engineers and Scientists III	5
<b>Total</b>	<b>46</b>

*NOTE: A minimum of 60 units and a cumulative GPA of 2.0 or higher must be completed to earn the Associate Degree. Major courses must each be completed with a grade of C or better. Always consult a counselor for information on program and graduation requirements, residency requirements and transfer information.*