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

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

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

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

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

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

### New Credit Courses

**BUSN 86 MANAGEMENT PRINCIPLES 3 UNITS**

The course is designed to familiarize students with the accepted standards, procedures, and techniques employed by top, middle, and supervisory level managers. The course provides an understanding of the role of management and how to develop plans and execute strategies in pursuit of organizational goals. Strongly Recommended: BUSN 40 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**BUSN 87 ORGANIZATIONAL MANAGEMENT AND LEADERSHIP 3 UNITS**

This course examines the special case of detailed planning and implementation of management decisions in strategic business units. Attention is focused on three areas: developing action plans and implementation strategies, developing awareness of the contingencies to be considered in taking strategic actions, and investigating how different academic disciplines interpret the leadership phenomenon. This course highlights key criteria used in assessing the viability of an organizational action plan, and the role of leadership in managing constructive change processes. Strongly Recommended: BUSN 40 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**CIS 7 INTRODUCTION TO PROGRAMMING CONCEPTS AND METHODOLOGIES 3 UNITS**

An introduction to the fundamental concepts and models of application development including the basic concepts of program design, data structures, programming, problem solving, programming logic, and fundamental design techniques for event-driven programs. Hands-on experience with a modern application object-oriented programming language and development platform such as Python/Visual Basic.NET/R Studio. Strongly Recommended: CIS 50 with a minimum grade of C. 45 hours lecture, 27 hours laboratory. AA/AS GE. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**CIS 10 BUSINESS DATA ANALYTICS 3 UNITS**

Students explore data analytic practices and its applicability in the business world. Business Intelligence (BI) is a data analysis process which utilizes an integrated set of application systems, processes, and tools that transform raw data into meaningful and useful information for business analysis. Students will learn the fundamentals of business analysis and BI tools and processes that help businesses make strategic and tactical decisions based on data. The process of business decision-making will be applied with an emphasis on data mining.
### Language and Rationale

#### English Composition

*Select 1 course; at least 3 units required*

- Complete with a grade of ‘C’ or higher or ‘P’

  - ENG 1A Critical Reading and Composition
  - ENG 1AX Critical Reading and Composition Expanded

#### Writing and Critical Thinking

*Select 1 course; at least 3 units required*

- ENG 4 Critical Thinking and Writing About Literature
- ENG 7 Critical Thinking and Writing Across Disciplines
- SPAN 23 Introduction to Hispanic Literature
- THEA 53 Script Analysis

#### Communication and Analytical Thinking

*Select at least 1 course; at least 3 units required*

- ASL 1A American Sign Language I
- ASL 1B American Sign Language II
- BUSN 48 Human Relations in Organizations
- BUSN 52 Business Communications
- CIS 50 Intro to Computing Info Tech
- CMST 1 Fundamentals of Public Speaking
- CMST 2 Oral Interpretation of Literature
- CMST 4 Intro. to Communication Studies
- CMST 10 Interpersonal Communication
- CMST 46 Argumentation and Debate
- CMST 48 Activities in Forensics
- CS 1 Computing Fundamentals I
- CS 17 Discrete Mathematical Structures
- FREN 1A Beginning Spanish
- FREN 1B Elementary Italian
- ITLN 1A Beginning Italian
- ITLN 1B Elementary Italian
- MUSC 1 Introduction to Reporting & Newswriting
- MATH 50 Intermediate Algebra for SLAM
- MATH 53A Technical Intermediate Algebra for Welding A*
- MATH 53B Technical Intermediate Algebra for Welding B*
- MATH 53B Intermediate Algebra for BSTEM
- CMST 5 Readers Theater

#### Humanities

*Select at least 1 course; at least 3 units required*

- ASL 2A American Sign Language III
- ASL 2B American Sign Language IV
- ARHS 1 Introduction to Art History
- ARHS 2 Art of the Ancient Americas
- ARHS 4 Western Art History - Ancient to Medieval
- ARHS 5 Western Art History - Renaissance to Contemp.
- ARHS 7 Modern Art History
- ARHS 8 Asian Art History
- ARTS 2A Introduction to Drawing
- ARTS 23 D-Design
- CMST 2 Oral Interpretation of Literature
- CMST 5 Readers Theater
- ENG 11 Introduction to Creative Writing
- ENG 12A The Craft of Writing Fiction
- ENG 12B The Craft of Writing Fiction: Intermediate
- ENG 13A Introduction to the Craft of Writing - Poetry
- ENG 13B The Craft of Writing Poetry: Intermediate
- ENG 20 Studies in Shakespeare
- ENG 32 U.S. Women’s Literature
- ENG 35 Modern American Literature
- ENG 41 Modern World Literature
- ENG 42 Literature of the African Diaspora in America
- ENG 44 Literature of the American West
- ENG 45 Studies in Fiction
- FREN 2A Intermediate French I
- GDDM 3 The History of Modern Design
- GDDM 70 Photoshop and Lightroom for Photographers*
- HIST 1 Western Civilization to 1600
- HIST 2 Western Civilization since 1600
- HIST 14 History and American Cultures of California
- HIST 25 American Indian History
- HIST 28 History of the American West
- HIST 32 U.S. Women’s History
- HUMN 3 Introduction to Humanities
- HUMN 4 Global Cinemas
- HUMN 6 Nature and Culture
- HUMN 10 American Arts and Ideas
- HUMN 11 Culture and Arts II: Ancient World to Renaiss.
- HUMN 12 Culture and the Arts II: The Modern World
- HUMN 28 World Mythology
- HUMN 44 Narrative Film and Film Music
- MUS 1 Introduction to Music
- MUS 3 World Music
- MUS 4 Jazz in American Culture
- MUS 5 American Cultures in Music
- MUS 6 Basic Music Skills
- MUS 12 Wind Ensemble
- MUS 13 History of Rock & Roll
- MUS 21A Beginning Piano
- MUS 23A Elementary Voice I

### Mathematics

Proficiency in Mathematics may be met in one of the following ways:

1. Submit Documentation showing completion of Algebra 2 or Integrated Math 3 in High School with a ‘C’ or higher, an AP score of 3 or higher, an IB score of 4 or higher, or a CLEP score of 50 or higher.

2. Complete one of the mathematics courses listed below at Las Positas College (with a grade of “C” or higher or “P”).

3. Submit Documentation showing completion of one of the mathematics courses listed below (or equivalent) at another institution (with a grade of “C” or higher or “P”).

#### Natural Sciences

*Select at least 1 course; at least 3 units required*

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

### Spring 2020

General Education Pattern for Associate of Arts (AA) Degree

- Students must take both the A and B to meet this area

* Students must take both the A and B to meet this area

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*Courses may be listed in more than one area but will NOT be certified more than once, unless otherwise stated.*

*For a course to meet an AA requirement, the course must be on the AA pattern during the academic year it is taken.*
Spring 2020

General Education Pattern for Associate of Arts (AA) Degree

MUS 34 Music in Film
MUS 37 Music Industry Career Development
MUS 38 Applied Lessons
MUS 44 Concert Choir
MUS 45 Chamber Choir
MUS 46A Beginning Jazz Choir
MUS 46B Advanced Jazz Choir
PHIL 1 God, Nature, Human Nature
PHIL 1H Honors Philosophy 1: God, Nature, Human Nat.
PHIL 2 Ethics
PHIL 2H Honors Philosophy 2: Ethics
PHIL 3 Aesthetics
PHIL 4 Intro to Philosophy: Knowledge
PHIL 5 Feminist Philosophy
PHOTO 67 History of Photography
PHOTO 70 Photoshop and Lightroom for Photographers*
RELS 1 Religions of the World
RELS 2 Bible: History and Literature
RELS 3 Intro to Women's Spirituality
RELS 31 The Nature of Islam
SPAN 2A Intermediate Spanish I
SPAN 21 Spanish for Bilingual Spanish Speakers I
SPAN 22 Spanish for Bilingual Spanish Speakers II
SPAN 23 Introduction to Hispanic Literature
THEA 1A Theory/Practice of Acting I
THEA 1B Theory/Practice of Acting II
THEA 4 American Cultures in Theater
THEA 5 Theater for Young Audiences
THEA 10 Introduction to Dramatic Arts
THEA 11 Stage to Screen
THEA 12 Film As Art & Dramatic
THEA 14 Bay Area Theatre
WLDT 71 Welding for the Arts

* GDDM 70 + PH70 maximum credit 1 course

Social and Behavioral Sciences
Select 1 course; at least 3 units required

AJ 50 Intro to Admin of Justice
AJ 60 Criminal Law
AJ 66 Juvenile Procedures
ANTR 1 Biological Anthropology
ANTR 2 Introduction to Archaeology
ANTR 3 Cultural Anthropology
ANTR 4 Language and Culture
ANTR 5 Cultures of the U.S. in Global Perspective
ANTR 6 Anthropology of Sex and Gender
ANTR 7 Native American Cultures of North America
ANTR 8 World Prehistory in Archaeological Perspective
ANTR 12 Magic/Religion/Witchcraft/Healing
ANTR 13 Introduction to Forensic Anthropology
BUSN 18 Business Law
BUSN 20 International Business
BUSN 30 Business Ethics and Society
CMST 3 Group Communication
EC 62 Child, Family and Community
EC 79 Teaching in a Diverse Society
ECON 1 Principles of Microeconomics
ECON 2 Principles of Macroeconomics
ECON 5 Economic History of the United States
ECON 10 General Economics
EGEO 1 Introduction to Physical Geography
EGEO 2 Cultural Geography
EGEO 5 World Regional Geography
EGEO 12 Geography of California
EGEO 15 Introduction to GIS
GS 1 Introduction to Global Studies
GS 2 Global Issues
HIST 14 History and American Cultures of California
HIST 25 American Indian History
HIST 28 History of the American West
HIST 32 U.S. Women's History
MSCM 5 Introduction to Mass Communications
MSCM 31 Introduction to Media
PCN 3 Theories & Concepts of Counseling: An Introduction
PCN 5 Introduction to Social Work & Human Services
PCN 13 Multicultural Issues in Contemporary America
POLI 7 Introduction to American Government
POLI 12 Intro to California State and Local Government
POLI 20 Comparative Government
POLI 25 Introduction to Political Theory
POLI 30 International Relations
PSY 1 General Psychology
PSY 3 Introduction to Social Psychology
PSY 4 Brain, Mind and Behavior
PSY 6 Abnormal Psychology
PSY 12 Life-span Psychology
PSY 13 Psychology of Women
PSY 15 Abnormal Child Psychology
PSY 17 The Psychology of Sleep and Dreams
PSY 21 Intro. to Cross-Cultural Psychology
PSY 25 Research Methods
PSY 27 Introduction to Cognitive Science
SOC 1 Principles of Sociology
SOC 3 Cultural and Racial Minorities
SOC 4 Marriage and Family Relations
SOC 5 Introduction to Global Studies
SOC 6 Social Problems
SOC 11 Sociology of Gender
SOC 12 Popular Culture
SOC 13 Research Methods
WMST 1 Introduction to Women's Studies
WMST 2 Global Perspective of Women

Wellness
Select 1 course in Health (3 units) and complete at least 1 unit in Kinesiology; at least 4 units required
* The entire Wellness area may be waived for Veterans with a DD214 – honorable discharge.

Health
Select 1 course

ECE 54 Child Health, Safety and Nutrition
HLTH 1 Introduction to Personal Health
HLTH 3 Women's Health
HLTH 7 Introduction to Public Health
HLTH 11 Health and Social Justice

Kinesiology
Select at least 1 course
* Exception from the Kinesiology requirement is allowed for illness or physical disability by filing a physician's statement at the Admissions & Records Office or for students who hold an AA/AS Degree or higher.

DANC 1 Introduction to Dance
DANC 2A Jazz Dance Fundamentals/Beginning
DANC 2B Jazz Dance Beginning/Intermediate
DANC 3A Ballet Fundamentals/Beginning
DANC 4A Modern/Contemporary Dance A
DANC 4B Modern/Contemporary Dance B
DANC 5A Dance Composition 5A
DANC 5B Dance Composition 5B
DANC 6A Dance Prod-Choreography A
DANC 6B Dance Prod-Choreography B
FST FSCI Fire Service Con. & Ph. Agility Development I
Any Kinesiology Intercol. Athletics Course (KIN 31A-65)
Any Kinesiology Activity Course (KIN AAE-ZUMI)

American Institutions (AI)
Select 1 course; at least 3 units required
* Partially satisfies CSU AI and USH requirement

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

American Cultures
Complete 1 course with a grade of 'C' or higher or 'P'
* Where appropriate, the course can simultaneously satisfy 1 other graduate or subject area requirement.

ANTR 3 Cultures of the U.S. in Global Perspective
ANTR 7 Native American Cultures of North America
CMST 11 Intercultural Communication
ENG 64 Literature of the American West
ECE 79 Teaching in a Diverse Society
HIST 14 History and American Cultures of California
HIST 28 History of the American West
HIST 32 U.S. Women's History
HUMN 10 American Arts and Ideas
MUS 3 World Music
MUS 4 Jazz in American Culture
MUS 5 American Cultures in Music
MUS 13 History of Rock & Roll
PCN 3 Theories & Concepts of Counseling: An Introduction
PCN 13 Multicultural Issues in Contemporary America
POLI 12 Intro. to California State and Local Government
SOC 3 Cultural and Racial Minorities
THEA 4 American Cultures in Theater
WMST 1 Introduction to Women's Studies

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

Spring 2020

Courses may be listed in more than one area but will NOT be certified more than once, unless otherwise stated.

For a course to meet an AA requirement, the course must be on the AA pattern during the academic year it is taken.

**Language and Rationality**

Select 1 course; at least 3 units required

- Complete with a grade of "C" or higher or "P".

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

**English Composition**

- Select at least 1 course; at least 3 units required

ASL 1A American Sign Language I
ASL 1B American Sign Language II
BUSN 48 Human Relations in Organizations
BUSN 52 Business Communications
CIS 50 Intro to Computing Info Tech
CMST 1 Fundamentals of Public Speaking
CMST 2 Oral Interpretation of Literature
CMST 4 Intro. to Communication Studies
CMST 10 Interpersonal Communication
CMST 46 Argumentation and Debate
CMST 48 Activities in Forensics
CS 1 Computing Fundamentals I
CS 17 Discrete Mathematical Structures
FREN 1A Beginning Spanish
FREN 1B Elementary Italian
ITLN 1A Beginning Italian
ITLN 1B Elementary Italian
MSCM 1 Introduction to Reporting & Newswriting
MSCM 32A Introduction to Radio Production
MATH 1 Calculus I
MATH 2 Calculus II
MATH 3 Multivariable Calculus
MATH 5 Ordinary Differential Equations
MATH 7 Elementary Linear Algebra
MATH 10 Discrete Mathematical Structures
MATH 30 College Algebra for STEM
MATH 33 Finite Mathematics
MATH 34 Calculus for Business and Social Sciences
MATH 39 Trigonometry
MATH 40 Statistics and Probability
MATH 47 Mathematics for Liberal Arts
MATH 50 Intermediate Algebra for SLAM
MATH 52B Technical Int. Algebra for Automotive Tech. B
MATH 55B Technical Intermediate Algebra for Welding B
MATH 55 Intermediate Algebra for BSTEM
MATH 55B Intermediate Algebra for BSTEM B
NMAT 250 Intermediate Algebra for SLAM
NMAT 255 Intermediate Algebra for BSTEM

**Natural Sciences**

Select at least 1 course; at least 3 units required

ANTR 1 Biological Anthropology
ANTR 13 Introduction to Forensic Anthropology
ASTR 10 Introduction to Astronomy: The Solar System
ASTR 20 Introduction to Astronomy: Stars and the Universe
ASTR 30L Introduction to Astronomy Lab
BIO 1A General Botany
BIO 1B General Zoology
BIO 1C Cell and Molecular Biology
BIO 7A Human Anatomy
BIO 7B Human Physiology
BIO 7C Microbiology
BIO 10 Intro. to the Science of Biology
BIO 20 Contemporary Human Biology
BIO 30 Introduction to College Biology
BIO 40 Humans and the Environment
BIO 50 Anatomy and Physiology
BIO 60 Marine Biology
BIO 70 Field Biology
CHEM 1A General College Chemistry I
CHEM 30A Intro to Applied Chemistry I
CHEM 31 Intro to College Chemistry
EVST 5 Energy and Sustainability
GEOG 1 Introduction to Physical Geography
GEOG 1L Introduction to Physical Geography Laboratory
GEOG 8 Introduction to Atmospheric Science
GEOG 15 Introduction to GIS
GEO 1 Physical Geology
GEO 1L Physical Geology Laboratory
GEO 2 Historical Geography with Lab
GEO 5 Environmental Geology: Hazards & Disasters
GEO 7 Env. Geology: Resources, Use Impact & Pollution
GEO 12 Introduction to Oceanography
GEO 12L Intro to Oceanography Laboratory

**Humanities**

Select at least 1 course; at least 3 units required

ASL 2A American Sign Language III
ASL 2B American Sign Language IV
ARHS 1 Introduction to Art History
ARHS 2 Art of the Ancient Americas
ARHS 4 Western Art History - Ancient to Medieval
ARHS 5 Western Art History - Renaissance to Contemporary
ARHS 7 Modern Art History
ARHS 8 Asian Art History
ARTS 2A Introduction to Drawing
ARTS 23 2-D Design
CMST 2 Oral Interpretation of Literature
CMST 5 Readers Theater
CMST 11 Intercultural Communication
ENG 11 Introduction to Creative Writing
ENG 12A The Craft of Writing Fiction
ENG 12B The Craft of Writing Fiction: Intermediate
ENG 13A Introduction to the Craft of Writing - Poetry
ENG 13B The Craft of Writing Poetry: Intermediate
ENG 20 Studies in Shakespeare
ENG 32 U.S. Women's Literature
ENG 35 Modern American Literature
ENG 41 Modern World Literature
ENG 42 Literature of the African Diaspora in America
ENG 44 Literature of the American West
ENG 45 Studies in Fiction
FREN 2A Intermediate French I
GDDM 3 The History of Modern Design
GDDM 70 Photoshop and Lightroom for Photographers*
HIST 1 Western Civilization to 1600
HIST 2 Western Civilization since 1600
HIST 14 History and American Cultures of California
HIST 25 American Indian History
HIST 28 History of the American West
HIST 32 U.S. Women's History
HUMN 3 Introduction to Humanities
HUMN 4 Global Cinemas
HUMN 6 Nature and Culture
HUMN 10 American Arts and Ideas
HUMN 11 Culture and Arts I: Ancient World to Renaissance
HUMN 12 Culture and the Arts II: The Modern World
HUMN 28 World Mythology
HUMN 44 Narrative Film and Film Music
MUS 1 Introduction to Music
MUS 3 World Music
MUS 4 Jazz in American Culture
MUS 5 American Cultures in Music
MUS 6 Basic Music Skills
MUS 12 Wind Ensemble
MUS 13 History of Rock & Roll
MUS 14 Jazz Workshop
MUS 19 Studies in Music Composition
MUS 20A Elementary Guitar
MUS 21A Beginning Piano
MUS 23A Elementary Voice I
MUS 34 Music in Film
MUS 37 Music Industry Career Development
MUS 38 Applied Lesson

**Mathematics**

Proficiency in Mathematics may be met in one of the following ways:

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

MATH 1 Calculus I
MATH 2 Calculus II
MATH 3 Multivariable Calculus
MATH 5 Ordinary Differential Equations
MATH 7 Elementary Linear Algebra
MATH 10 Discrete Mathematical Structures
MATH 17 Discrete Mathematical Structures
MATH 20 Discrete Mathematical Structures
MATH 30 College Algebra for STEM
MATH 33 Finite Mathematics
MATH 34 Calculus for Business and Social Sciences
MATH 39 Trigonometry
MATH 40 Statistics and Probability
MATH 47 Mathematics for Liberal Arts
MATH 50 Intermediate Algebra for SLAM
MATH 52B Technical Int. Algebra for Automotive Tech. B
MATH 55B Technical Intermediate Algebra for Welding B
MATH 55 Intermediate Algebra for BSTEM
MATH 55B Intermediate Algebra for BSTEM B
NMAT 250 Intermediate Algebra for SLAM
NMAT 255 Intermediate Algebra for BSTEM
General Education Pattern for Associate of Science (AS) Degree

Spring 2020

Program-Based General Education Requirement
At least 3 units required

You will need 1 course to satisfy this area. The course is specific to each A.S. Degree Major; see the 2019-20 Catalog or the A.S. program coordinator.

Social and Behavioral Sciences
Select 1 course; at least 3 units required
A] 50 Intro to Admin of Justice
A] 60 Criminal Law
A] 66 Juvenile Procedures
ANTR 1 Biological Anthropology
ANTR 2 Introduction to Archaeology
ANTR 3 Cultural Anthropology
ANTR 4 Language and Culture
ANTR 5 Cultures of the U.S. in Global Perspective
ANTR 6 Anthropology of Sex and Gender
ANTR 7 Native American Cultures of North America

Graduation Requirements

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

Kinesiology
Select at least 1 course; at least 1 unit required
• Exception from the Kinesiology requirement is allowed for illness or physical disability by filing a physician’s statement at the Admissions & Records Office or for students who hold an AAAS Degree or higher.
• The Kinesiology requirement may be waived for Veterans with a DD214 - honorable discharge.

American Cultures
Complete 1 course with a grade of ‘C’ or higher or ‘P’
• Where appropriate, the course can simultaneously satisfy 1 other graduate or subject area requirement.
• Courses may be listed in more than one area but will NOT be certified more than once, unless stated otherwise.
• For a course to meet a CSU GE-B requirement, the course must be on the CSU GE-B pattern during the academic year it is taken.

Area A: English Language Communication and Critical Thinking
Select 3 courses, 1 from 1A, 1B, and 1C; at least 9 units required
• All courses must be completed with a grade of ‘C’ or better.

A1: Oral Communication
Select 1 course
CMST 1 Fundamentals of Public Speaking
CMST 10 Interpersonal Communication
CMST 46 Argumentation and Debate

A2: Written Communication
Select 1 course
ENG 1A Critical Reading and Composition
ENG 1AEX Crit. Reading and Comp. Exp.

A3: Critical Thinking
Select 1 course
CMST 46 Argumentation and Debate
ENG 4 Crit. Thinking and Writ. About Lit.
ENG 7 Crit. Thinking and Writ. Across Disc.
PHIL 6 Introduction to Logic
PHIL 8 Logic and Argumentation

Area B: Scientific Inquiry and Quantitative Reasoning
Select 1 Physical Science course, 1 Life Science course, 1 course with a Lab, and 1 Mathematics/Quantitative Reasoning course; at least 9 units required

B1: Physical Science
Select 1 course
ASTR 10 Intro. to Ast.: The Solar System
ASTR 20 Intro. to Ast.: Stars and the Uni.
CHEM 1A General College Chemistry I†
CHEM 1B General College Chemistry II†
CHEM 12A Organic Chemistry I†
CHEM 12B Organic Chemistry II†
CHEM 30A Intro to Applied Chemistry I†
CHEM 30B Intro to Applied Chemistry II†
CHEM 31 Intro to College Chemistry†
EVST 5 Energy and Sustainability
GEOG 1 Introduction to Physical Geography
GEOG 8 Intro. to Atmospheric Science
GEOG 12 Geography of California (F16)
GEOL 1 Physical Geology
GEOL 2 Historical Geology with Lab†
GEOL 5 Env. Geology: Hazards & Disasters
GEOL 7 Env. Geol.: Res., Use Impact & Pol.
GEOL 12 Introduction to Oceanography
PHYS 1A General Physics I†
PHYS 1B General Physics II†
PHYS 1C General Physics III†
PHYS 1D General Physics IV†
PHYS 2A Introduction to Physics I†
PHYS 2B Introduction to Physics II†
PHYS 10 Descriptive Physics

B2: Life Science
Select 1 course
ANTR 1 Biological Anthropology
ANTR 13 Intro. to Forensic Anthropology
BIO 1A General Botany†
BIO 1B General Zoology†
BIO 1C Cell and Molecular Biology†
BIO 7A Human Anatomy†
BIO 7B Human Physiology†
BIO 7C Microbiology
BIO 10 Intro. to the Science of Biology

B3: Laboratory Activity
Select 1 course from below or from B1 or B2 marked with †
ANTR 1L Biological Anthropology Lab
ANTR 2L Archaeology Field Lab
ASTR 30L Introduction to Astronomy Lab
GEOG 1L Intro. to Physical Geography Lab.
GEOL 1L General Physical Geology Lab.
GEOL 12L Intro to Oceanography Lab.
PHYS 10L Descriptive Physics Lab

B4: Mathematics/Quantitative Reasoning
Select 1 course
• Must be completed with a grade of ‘C’ or better.
BUSN 33 Personal Fin. Manag. & Planning
CS 17 Discrete Mathematical Structures
MATH 1 Calculus I
MATH 2 Calculus II
MATH 3 Multivariable Calculus
MATH 5 Ordinary Differential Equations
MATH 7 Elementary Linear Algebra
MATH 10 Discrete Mathematical Structures
MATH 20 College Algebra for STEM
MATH 23 Finite Mathematics
MATH 34 Calc. for Bus. and Social Sciences
MATH 39 Trigonometry
MATH 40 Statistics and Probability
MATH 47 Mathematics for Liberal Arts

Area C: Arts and Humanities
Select 3 courses, 1 course from Arts, 1 course from Humanities, and 1 course from either area; at least 9 units required

C1: Arts
Select at least 1 course
ARTS 1 Introduction to Art History
ARTS 2 Art of the Ancient Americas
ARTS 4 Western Art Hist. - Ancient to Med.
ARTS 5 Western Art Hist. - Ren. to Cont.
ARTS 7 Modern Art History
ARTS 8 Asian Art History
ARTS 2A Introduction to Drawing
ARTS 3A Figure and Composition I
ARTS 4A Introduction to Ceramics (F19)
ARTS 7A Intro. to Watercolor Painting (F19)
ARTS 12A Oil/Acrylic Painting: Beg. I (F19)
ARTS 13A Acrylic Painting: Beg. I (F19)
GDMM 5 The History of Modern Design
HUMN 4 Global Cinemas
HUMN 11 Cul. & the Arts I: Anc. to Ren.
HUMN 12 Cul. & the Arts II: The Mod. W.
HUMN 28 World Mythology
HUMN 44 Narrative Film and Film Music
MUS 34 Music in Film
PHIL 1 God, Nature, Human Nature
PHIL 1H Honors Philosophy 1: God, Nature, Human Nature
PHIL 2 Ethics
PHIL 2H Honors Philosophy 2: Ethics
PHIL 3 Aesthetics
PHIL 4 Intro to Philosophy: Knowledge
PHIL 5 Feminist Philosophy
PHIL 6 Introduction to Logic (F19)
PHIL 8 Logic and Argumentation (F19)
PHIL 10 Religion
REL 1 Religions of the World
REL 2 Bible: History and Literature
REL 3 Intro to Women’s Spirituality
REL 11 The Nature of Islam
SPAN 2A Intermediate Spanish I
SPAN 2B Intermediate Spanish II
SPAN 21 Spanish for Bilingual Spanish Speakers I (F19)

Area D: Social and Behavioral Sciences
Select 3 courses, from at least 2 different disciplines; at least 9 units required

D1: Social Science
Select 1 course
POLI 12 Intro. to Ca. State and Local Gov.
POLI 7 Intro. to American Government
PCN 13 Multicultural Issues in Cont. Am.
ANTR 8 World Prehistory in Arch. Pers.
ANTR 7 Native Am. Cultures of N. Am.
ANTR 4 Language and Culture
ANTR 5 Cultures of the U.S. in Global Pers.
ANTR 6 Anthropology of Sex and Gender
ANTR 7 Native Am. Cultures of N. Am.
ANTR 8 World Prehistory in Arch. Pers.
ANTR 9 Music/Rel./Witchcraft/Healing
BUS 30 Business Ethics and Society
CMST 4 Intro. to Communication Studies
CMST 10 Interpersonal Communication (F16)
CMST 11 Intercultural Communication (F16)
EC 56 Child Growth and Development
EC 56 Child Family and Community
EC 79 Teaching in a Diverse Society
ECON 1 Principles of Microeconomics
ECON 2 Principles of Macroeconomics
ECON 3 Economic History of the U.S.
ECON 10 Labor Economics
ENG 44 Literature of the American West
GEOG 2 Cultural Geography
GEOG 5 World Regional Geography
GEOG 12 Geography of California (F16)
GEOG 15 Introduction to GIS
GS 1 Introduction to Global Studies**
GS 2 Global Issues
HLTH 3 Women’s Health (F15)
HLTH 7 Introduction to Public Health
HLTH 11 Health and Social Justice
HIST 1 Western Civilization to 1600
HIST 2 Western Civilization since 1600
HIST 7 US History Through Reconst. (F19)
HIST 8US History Post-Reconstruction (F19)
HIST 14 History and Am. Cult. of Calif. (F19)
HIST 25 American Indian History (F16)
HIST 32 U.S. Women’s History (F16)
HUMN 3 Introduction to Humanities
HUMN 4 Global Cinemas
HUMN 6 Nature and Culture
HUMN 10 American Arts and Ideas
HUMN 11 Cul. & the Arts I: Anc. to Ren.
HUMN 12 Cul. & the Arts II: The Mod. W.
HUMN 28 World Mythology
HUMN 44 Narrative Film and Film Music
MUS 34 Music in Film
PHIL 1 God, Nature, Human Nature
PHIL 1H Honors Philosophy 1: God, Nature, Human Nature
PHIL 2 Ethics
PHIL 2H Honors Philosophy 2: Ethics
PHIL 3 Aesthetics
PHIL 4 Intro to Philosophy: Knowledge
PHIL 5 Feminist Philosophy
PHIL 6 Introduction to Logic (F19)
PHIL 8 Logic and Argumentation (F19)
PHIL 10 Religion
REL 1 Religions of the World
REL 2 Bible: History and Literature
REL 3 Intro to Women’s Spirituality
REL 11 The Nature of Islam
SPAN 2A Intermediate Spanish I
SPAN 2B Intermediate Spanish II
SPAN 21 Spanish for Bilingual Spanish Speakers I (F19)

SPAN 22 Spanish for Bilingual Spanish Speakers II
SPAN 23 Introduction to Hispanic Literature

Spring 2020
Area E: Lifelong Learning and Self Development
Complete at 3 units from below
• Veterans with DD214 honorable discharge receive a waiver for this area
  and 3 units toward CSU

BIO 55 Orientation to Health Care (F18)
CMST 3 Group Communication (F18)
CMST 10 Interpersonal Communication
CMST 11 Interpersonal Comm. (F15)
DANC 2A Jazz Dance Fund./Beginning
DANC 2B Jazz Dance Beginning/Inter.
DANC 3A Ballet Fundamentals/Beginning
DANC 4A Modern/Contemp. Dance A (F19)
DANC 4B Modern/Contemp. Dance B (F19)
DANC 5A Dance Composition 5A
DANC 5B Dance Composition 5B
DANC 6A Dance Prod.-Choreography A
DANC 6B Dance Prod.-Choreography A
ECE 54 Child Health, Safety and Nutrition
ECE 56 Child Growth and Development
FST FSC1 Fire Serv. Con. & Phs. Ag. Dev.
HLTH 1 Introduction to Personal Health
HLTH 3 Women’s Health
KIN 22A Science of Soccer 1
KIN 24 Sports Psychology
KIN 26A Coaching Youth Soccer
KIN 30 Introduction to Kinesiology
KIN 31A Pre-Season Inter. Men’s Basketball*
KIN 31B Fall Inter. Men’s Basketball*
KIN 31C Spring Inter. Men’s Basketball*
KIN 31D Off-Season Inter. Men’s Basketball*
KIN 38A Pre-Season Inter. Men’s Soccer*
KIN 38B Intercolligate Men’s Soccer*
KIN 38C Post Season Inter. Men’s Soccer
KIN 40A Pre-Season Int. Women’s Volleyball*
KIN 40B In Season Int. Women’s Volleyball*
KIN 40C Off Season Int. Women’s Volleyball*
KIN 41A Pre-Sea. Inter. Women’s Basketball*
KIN 41B Fall Inter. Basketball - Women*
KIN 41C Spring Inter. Basketball - Women*
KIN 41D Off-Sea. Int. Women’s Basketball*
KIN 46A Pre-Sea. Inter. Women’s Soccer*
KIN 46B Inter. Athletics: Women’s Soccer*
KIN 48C Off Season Inter. Women’s Soccer*
KIN 50 Inter. Swimming & Diving*
KIN 51 Pre-Season Train. - Swim. & Diving*
KIN 60 Inter. Water Polo - Men’s*
KIN 61 Water Polo Off Season Training*
KIN 65 Inter. Water Polo - Women’s*
KIN 66A Adaptive Athletics Exercise*
KIN 66B Adaptive Aquatic Exercise*
KIN 66C Adaptive Aerobic Exercise*
KIN 66D Adaptive Aerobic Exercise Gym*
KIN 66E Adaptive Individualized Exercise*
KIN 66F Adaptive Physical Activities*
KIN 66G Aqua Aerobics*
KIN 66H AWAT Adapted Weight Training*
KIN 67BC1 Boot Camp for Flex. & Core Dev.*
KIN 67BC2 Boot Camp for Aerobic Cond.*
KIN 67RC3 Boot Camp for Power & Str. Tra.*
KIN 67D1 Badminton 1*
KIN 67D2 Badminton 2*
KIN 67D3 Badminton 3*
KIN 67K1 Basketball 1*
KIN 67K2 Basketball 2*
KIN 67L1 Bowling 1*
KIN 67SF1 Body Sculpting for Fitness*
KIN 67X1 Box Aerobics 1*
KIN 67X2 Box Aerobics 2*
KIN 67CR1 Cricket 1*
KIN 67CR2 Cricket 2*
KIN 67CCL1 Cycling Conditioning 1*
KIN 67CCL2 Cycling 2*
KIN 67CCL3 Cycling 3*
KIN 67DBS Dance Aerobics/Body Sculpting*
KIN 67DV1 Springboard Diving*
KIN 67EDT1 Eskrima - Tenio DeCuerras 1*
KIN 67EDT2 Eskrima - Tenio DeCuerras 2*
KIN 67EDT3 Eskrima - Tenio DeCuerras 3*
KIN 67EDT4 Eskrima - Tenio DeCuerras 4*
KIN 67FC Fitness Center*
KIN 67FD Fitness Development*
KIN 67FL1 Flag Football 1*
KIN 67FL2 Flag Football 2*
KIN 67FL3 Flag Football 3*
KIN 67FNE1 Fencing - Epee 1*
KIN 67FNE2 Fencing - Epee 2*
KIN 67FNE1 Fencing - Foil 1*
KIN 67FNL2 Fencing - Foil 2*
KIN 67FW1 Fitness Walking 1*
KIN 67FW2 Fitness Walking 2*
KIN 67FW3 Fitness Walking 3*
KIN 67GBW Guts and Butts Workout*
KIN 67GF1 Golf 1*
KIN 67GF2 Golf 2*
KIN 67GF3 Golf 3*
KIN 67JDR1 Jujutsu - Danzan Ryu 1*
KIN 67JDR2 Jujutsu - Danzan Ryu 2*
KIN 67JDR3 Jujutsu - Danzan Ryu 3*
KIN 67JDR4 Jujutsu - Danzan Ryu 4*
KIN 67JW Judo/Walk*
KIN 67LG Lifeguarding*
KIN 67OM1 Optimal Movement 1*
KIN 67PF Personal Fitness*
KIN 67PL1 Pilates 1*
KIN 67PL2 Pilates 2*
KIN 67SD1 Salsa Dance 1*
KIN 67SL1 Soccer - Indoor 1*
KIN 67SL2 Soccer - Indoor 2*
KIN 67SO1 Soccer - Outdoor 1*
KIN 67SO2 Soccer - Outdoor 2*
KIN 67SW1 Swimming 1*
KIN 67SW2 Swimming 2*
KIN 67SW3 Swimming 3*
KIN 67SW4 Swimming 4*
KIN 67SWF1 Swimming for Fitness 1*
KIN 67SWF2 Swimming for Fitness 2*
KIN 67SWF3 Swimming for Fitness 3*
KIN 67SWF4 Swimming for Fitness 4*
KIN 67TK1 Tai Kwon Do 1*
KIN 67TK2 Tai Kwon Do 2*
KIN 67TK3 Tai Kwon Do 3*
KIN 67UF1 Ultimate Frisbee 1*
KIN 67UF2 Ultimate Frisbee 2*
KIN 67UF3 Ultimate Frisbee 3*
KIN 67UF4 Ultimate Frisbee 4*
KIN 67VB1 Volleyball Beginning*
KIN 67VB2 Volleyball Intermediate*
KIN 67VB3 Volleyball Advanced*
KIN 67WP1 Water Polo 1*
KIN 67WP2 Water Polo 2*
KIN 67WP3 Water Polo 3*
KIN 67WT1 Weight Training 1*
KIN 67WT2 Weight Training 2*
KIN 67WTW1 Women’s Weight Training One*
KIN 67WTW2 Women’s Circuit Training*
KIN 67X71 X-Training*
KIN 67Y01 Yoga 1*
KIN 67Y02 Yoga 2*
KIN 67Y03 Yoga 3*
KIN 67Y04 Yoga 4*
KIN 67ZUM1 Zumba Fitness Workout 1*
NUTR 1 Nutrition
PCN 10 Career and Educational Planning
PCN 18 University Transfer Planning
PCN 30 Student Success & the College Exp.
PSYC 10 Psychology of Human Sexuality
PSYC 12 Life-span Psychology
SOC 4 Marriage and Family Relations
SOC 7 Sociology of Sexuality

** GS 1 + SOC 5 maximum credit 1 course

FAQS: Frequency Asked Questions about CSU GE-B

Q What is the California State University General Education-Breadth (CSU GE-B)?
A CSU GE-B is a general education pattern which community college transfer students can follow to fulfill lower-division general education requirements for the CSU systems.

Q Is CSU GE-B an admission requirement?
A NO. If appropriate for the major, students may complete the minimum eligibility requirements for admission to a CSU – see a counselor or for details and advisement.

Q Can I use Advanced Placement (AP), International Baccalaureate (IB), and College Level Examination Program (CLEP) exams for CSU GE-B?
A YES. AP, IB, and CLEP exams may be applied to CSU GE-B with passing scores. For details, see the AP, IB, and CLEP Charts in the LPC Catalog. However, application of AP, IB, and CLEP exams to major requirements can vary at each CSU campus.

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

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

<table>
<thead>
<tr>
<th>Area 1: English Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) CSU: Select 3 courses, 1 from 1A, 1B, and 1C; at least 9 units required</td>
</tr>
<tr>
<td>b) UC: Select 2 courses, 1 from 1A and 1B; at least 6 units required</td>
</tr>
<tr>
<td>1A: English Composition</td>
</tr>
<tr>
<td>Select 1 course</td>
</tr>
<tr>
<td>1B: Critical Thinking/English Composition</td>
</tr>
<tr>
<td>Select 1 course</td>
</tr>
<tr>
<td>1C: Oral Communication</td>
</tr>
<tr>
<td>Select 1 course</td>
</tr>
<tr>
<td>• CU requirement only</td>
</tr>
</tbody>
</table>

| Area 2: Mathematical Concepts and Quantitative Reasoning |
| Select 1 course; at least 3 units required |
| 2A: Math |
| Select 1 course |

| Area 3: Arts and Humanities |
| Select 3 courses: 1 course from Arts, 1 course from Humanities, and 1 course from either area; at least 9 units required |
| 3A: Arts |
| Select at least 1 course |

| Area 4: Social and Behavioral Sciences |
| Select 3 courses from at least 2 different disciplines; at least 9 units required |

| Area 5: Physical and Biological Sciences |
| Select 1 Physical Science course, 1 Biological Science course, and 1 course with a Lab; at least 7 units required |

| 5A: Physical Science |
| Select 1 course |

| 5B: Biological Science |
| Select 1 course |

| WMST 2 Global Perspective of Women |
| • GS 1 + SOC 5 maximum credit 1 course |
| ** MSCM 5 + 31 maximum credit 1 course |
FREN 2A Intermediate French I
FREN 1B Elementary French
FREN 1A Beginning French
ASL 2B American Sign Language IV
ASL 2A American Sign Language III
ASL 1B American Sign Language II
ASL 1A American Sign Language I
SPAN 2B Intermediate Spanish II
SPAN 2A Intermediate Spanish I
SPAN 1B Elementary Spanish
SPAN 1A Beginning Spanish
FREN 2B Intermediate French II
FREN 1B Elementary French
FREN 2A Intermediate French I

1. Complete 1 of the following courses with a grade of ‘C’ or better
   ASL 1A American Sign Language I
   ASL 1B American Sign Language II
   ASL 2A American Sign Language III
   ASL 2B American Sign Language IV
   FREN 1A Beginning French
   FREN 1B Elementary French
   FREN 2A Intermediate French I

2. Complete 2 years of high school study in the same language, with a grade of C- or better in the final term.
   SPAN 22 Spanish for Bilingual Spanish Speakers I (Spring 19)
   SPAN 21 Spanish for Bilingual Spanish Speakers II (Fall 19)
   SPAN 23 Introduction to Hispanic Literature

3. Demonstrating equivalent proficiency prior to transfer or AP Language & Cultures exam with a score of 3 or higher.
   ITLN 1A Beginning Italian
   ITLN 1B Elementary Italian

American Institutions
History, Constitution, and
American Ideals - CSU
Graduation Requirement
(NOT required to certify IGETC)
Complete 1 group
• Up to 6 units of these courses may also be applied to Area 3B or 4 if applicable.

Group 1
HIST 7 US History Through Reconstruction
HIST 8 US History Post-Reconstruction

Group 2
HIST 7 US History Through Reconstruction
HIST 14 History & Am. Cultures of Calif.

Group 3
POLI 7 Intro. to American Government and at least 1 of the following:
HIST 7 US History Through Reconstruction.
HIST 25 American Indian History
HIST 32 U.S. Women's History

FAQS: Frequency Asked Questions about IGETC

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

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

Q Is IGETC an admission requirement?

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

Q What alternatives to IGETC exist?

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

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

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

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

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

Q Will all UC and CSU campuses accept IGETC?

A NO, for example UC Berkeley's Haas School of Business and Engineering will NOT accept IGETC.

Q Can I use Advanced Placement (AP) and International Baccalaureate (IB) exams for IGETC?

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

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

A IGETC certification is the process by which the community college verifies that a student has completed all of the required coursework for the IGETC pattern (11 courses/34 units where Area 1C is not required and partial completion is also possible), which is sent directly to the transfer institution. If IGETC is not certified, students may be subject to the lower-division general education requirements of the campus to which they transfer. Request an IGETC Certification in the Admissions & Records at the end of the last semester before transferring.

Please note that Las Positas and Chabot College DO NOT share CSU GE-B or IGETC patterns. If you are interested in taking a course at Chabot College please be sure to see a counselor.
Careers and emerging trends in the field will be evaluated. Strongly Recommended: CIS 54 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**CIS 11 DATA VISUALIZATION TOOLS 3 UNITS**

Data visualization is the process of representing information graphically. This course provides a hands-on introduction to various data visualization tools such as Tableau, Excel, Power BI, R Studio. Students use repositories of data for preparation that includes: data formatting, filtering and cleaning. Design principles are applied to create meaningful displays of quantitative and qualitative data to facilitate managerial decision-making. Strongly Recommended: CIS 54 with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**CIS 44 IT FUNDAMENTALS+ 2 UNITS**

Information Technology Fundamentals+ (ITF+) is the essential qualification for exploring a career in IT. This course will cover the topics of the CompTIA IT Fundamentals certification, which validates the knowledge and skills required to identify and explain the basics of computing hardware and software, IT infrastructure, applications and software, software development concepts, database fundamentals, and security. Technologies and trends of the IT industry and the exploration of IT careers. This course will prepare you to take the CompTIA certification exam. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**CIS 81A INTRODUCTION TO CLOUD 3 UNITS**

This course introduces cloud computing which shifts information systems from on-premises computing infrastructure to highly scalable internet architectures using current cloud platforms such as AWS, AZURE. The course provides a basic understanding of cloud computing technologies and provides students with the understanding required to effectively evaluate and assess the business and technical benefits of cloud computing and cloud applications. Students analyze a variety of cloud services (storage, servers, software applications), then learn to configure, deploy, and manage cloud facilities. The course also demonstrates/makes available the AWS and/or AZURE platforms for educational, industry career path guidance and career opportunities. This course surveys cloud careers and explores industry demand for cloud skills. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**CIS 81B DATABASE ESSENTIALS 3 UNITS**

This course addresses cloud database management which supports a number of different approaches for storing data. In the course, students define, operate and scale both SQL and noSQL data storage solutions. This course considers factors that should be balanced during the design of a storage solution. Principles are applied by performing exercises using Amazon RDS and SQL to create and fill tables, retrieve and manipulate data. Object-based APIs are used to serialize objects to Amazon DynamoDB for noSQL solutions. Topics include automated backups, transaction logs, restoration and retention. Strongly Recommended: CIS 81A with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**CIS 81C COMPUTE ENGINES FOR CLOUD COMPUTING 3 UNITS**

In this course, students explore how cloud computing systems are built using a common set of core technologies, algorithms, and design principles centered around distributed systems. Students will use current cloud platforms such as AWS, AZURE to provision, load-balance and scale their applications. The course discusses, from a developer perspective, the most important reasons for using cloud computing and examines the underlying design principles of scalable cloud applications. Strongly Recommended: CIS 81A with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**CIS 81D SECURITY SERVICES IN THE CLOUD 3 UNITS**

This course focuses on protecting the confidentiality, integrity and availability of computing systems and data. Students learn how Amazon Web Service (AWS) uses redundant and layered controls, continuous validation and testing, and a substantial amount of automation to ensure the underlying infrastructure is continuously monitored and protected. Students examine the AWS Shared Responsibility Model and access the AWS Management Console to learn more about security tools and features provided by the AWS platform. Strongly Recommended: CIS 81A with a minimum grade of C. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**CIS 82A AWS CLOUD PRACTITIONER CERTIFICATION PREP 2 UNITS**

This introductory course provides an overview of cloud concepts, Amazon Web Services (AWS) core services, basic security, architecture principles, pricing, and technical support. Students gain an overall understanding of the AWS Cloud, independent of specific technical roles. Review of core characteristics of deploying and operating in the AWS Cloud. This course prepares students to pursue becoming an AWS Certified Cloud Practitioner using official AWS Academy Cloud Foundations material. Strongly Recommended: CIS 81A with a minimum grade of C. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**CIS 82B AWS ACADEMY SOLUTIONS ARCHITECTURE CERTIFICATION PREP 3 UNITS**

This course focuses on teaching technical expertise in cloud computing and the skills needed to pursue AWS Certified Solutions Architect - Associate certification. This course is delivered through lectures, hands-on labs, and project work. Students have access to course manuals, online knowledge assessments, hands-on labs, practice certification exam, and discount voucher for the certification exam. Strongly Recommended: CIS 82A with a minimum grade of C. 36 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP
ENGR 50  INTRODUCTION TO ELECTRONIC SYSTEMS AND MEASUREMENTS  4 UNITS

Introduction to electrical and electronic systems and circuits. Overview of digital and analog electronics, semiconductor devices and software tools. Direct current and alternating current circuit analysis including Ohm’s law and Kirchhoff’s laws. Measurement and characterization of electronic systems, data collection, and reporting results. Comparing system and component performance to published specifications and developing troubleshooting techniques. Laboratory practice includes operation and proper use of standard test instruments. Prerequisite: MATH 39 with a minimum grade of C. 36 hours lecture, 108 hours laboratory. Transfer: CSU.

Degree Applicable, Credit  Grading Option: GR

ESL 100  BEGINNING SPELLING FOR ENGLISH LANGUAGE LEARNERS  1 UNIT

This is a one semester beginning spelling class, designed to enable English language learners to recognize and use beginning sound/spelling patterns in English, develop an understanding of the sounds and symbols of English, including open/closed syllables, short and long vowel sounds, consonant and consonant cluster sounds, as well as the spelling of homophones and other problem words in everyday English. The course will also focus on basic dictionary skills to improve student autonomy. 18 hours lecture.

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

ESL 110  BEGINNING VOCABULARY SKILLS FOR ENGLISH LANGUAGE LEARNERS  1 UNIT

This is a beginning level vocabulary skills class, designed to enable English language learners to improve language proficiency by learning new vocabulary and developing vocabulary-building skills. The class will focus on the 0-1000 most common words in English, dictionary skills, and beginning morphology including prefixes, suffixes and roots. 18 hours lecture, 18 hours laboratory.

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

ESL 115  INTERMEDIATE VOCABULARY SKILLS FOR ENGLISH LANGUAGE LEARNERS  1 UNIT

This is an intermediate level vocabulary skills class, designed to enable English language learners to improve language proficiency by learning new vocabulary and developing vocabulary-building skills. The class will focus on the 1000-2000 most common words in English, dictionary skills, and intermediate morphology including prefixes, suffixes and roots. Prerequisite: NESL 231B with a minimum grade of P or ESL 131B with a minimum grade of P or Placement into intermediate ESL through the ESL assessment process. 18 hours lecture, 18 hours laboratory.

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

FST 24  CO 2E WILDLAND INCIDENT OPERATIONS FOR COMPANY OFFICERS  2.5 UNITS

This course provides information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wildland fire, establishing an incident command post, creating an incident action plan, and completing incident records and reports. Prerequisite: Must be a current fire fighter and meet educational requirements for Firefighter 1 and Firefighter 2 certifications. 45 hours lecture. Transfer: CSU.

Degree Applicable, Credit  Grading Option: OP

MATH 67  MATH JAM FOR CALCULUS II  0.5 UNITS

Math Jam for Calculus II is a credit course for students preparing for Calculus II. Embedded are essential study and life skills to develop each student holistically, including career development. Students will be learning basic skills and transfer-level material with the goal of preparing them to be successful in their upcoming class. It is strongly recommended that students taking this course are enrolled in a calculus course. 27 hours laboratory.

Degree Applicable, Credit  Grading Option: P/NP

MATH 67C  CONCURRENT SUPPORT FOR CALCULUS II  1 UNIT

This course offers structured support to students who are concurrently enrolled in Calculus II. The support course includes material to prepare students for the rigor of the calculus course by teaching learning skills necessary to succeed in college courses as well as review of relevant prerequisite algebraic, geometric and trigonometric concepts, and more in-depth investigation of core concepts in their concurrent math course. Corequisite: MATH 2. 54 hours laboratory.

Degree Applicable, Credit  Grading Option: P/NP

MATH 68  MATH JAM FOR CALCULUS III  0.5 UNITS

Math Jam for Calculus III is a credit course for students preparing for Calculus III. Embedded are essential study and life skills to develop each student holistically, including career development. Students will be learning basic skills and transfer-level material with the goal of preparing them to be successful in their upcoming class. It is strongly recommended that students taking this course are enrolled in a calculus course. 27 hours laboratory.

Degree Applicable, Credit  Grading Option: P/NP
MATH 68C CONCURRENT SUPPORT FOR CALCULUS III 1 UNIT

This course offers structured support to students who are concurrently enrolled in Calculus III. The support course includes material to prepare students for the rigor of the calculus course by teaching learning skills necessary to succeed in college courses as well as review of relevant prerequisite algebraic, geometric and trigonometric concepts, and more in-depth investigation of core concepts in their concurrent math course. Corequisite: MATH 3. 54 hours laboratory.

Degree Applicable, Credit Grading Option: P/NP

MATH 156 GEOMETRY 3 UNITS

Topics in plane geometry include: congruence, similarity, parallel lines, and properties of polygons and circles. Prerequisite: MATH 110 with a minimum grade of C or NMAT 210 with a minimum grade of C. 54 hours lecture.

Non-Degree Applicable, Credit Grading Option: OP

THEA 54 SHAKESPEARE THROUGH PERFORMANCE 3 UNITS

Study and performance of classical Shakespearean texts (monologues and dialogues), with a focus on the Elizabethan world as it applies to performance. Students will come to understand the works of William Shakespeare through active performance techniques as well as traditional literary analysis. Prerequisite: THEA 1A with a minimum grade of C. Strongly Recommended: THEA 1B with a minimum grade of C. 54 hours lecture. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

THEA 55 MOVEMENT FOR THE ACTOR 1 UNIT

Movement for the Actor is designed to use movement and gesture for furthering skills in character development, enhancing the actor’s understanding of their body as a tool for communication. This course focuses on the actor’s body and mind connection, and how they might use that connection to further enhance their performance skills. Course included exercises based on various techniques including an introduction to mime, Laban, Viewpoints, character masks, and ensemble development exercises. 18 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

New Noncredit Courses

NBUS 200 COMMUNICATION IN THE WORKPLACE 0 UNITS

This course introduces the key elements for communication in the professional workplace, and is beneficial for students seeking to improve their interpersonal communication skills. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 201 WRITING SKILLS FOR MANAGERS 0 UNITS

This course is designed to provide students with the skills necessary to effectively write various business documents. This course is beneficial for students seeking to improve their written communication skills in the workplace. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 202 ATTITUDE IN THE WORKPLACE 0 UNITS

This course introduces the key elements for attitude in the professional workplace. This course is beneficial for students seeking to improve their ability to communicate a positive attitude at work. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 203 DECISION MAKING AND PROBLEM SOLVING 0 UNITS

This noncredit course introduces the key elements for decision making and problem solving in the professional workplace. This course is beneficial for students seeking to improve their decision making and problem solving skills. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 204 MANAGING ORGANIZATIONAL CHANGE 0 UNITS

This noncredit course introduces the key elements for managing organizational change in the professional workplace. This course is beneficial for students seeking to improve their understanding of how to manage organizational change. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 205 TEAM BUILDING 0 UNITS

This course is designed to provide students with an understanding of how teams work together, and common problems teams encounter and how to solve them. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 206 TIME MANAGEMENT 0 UNITS

This course is designed to introduce students to time management principles and specific tools that assist in making the most efficient use of time. This course is beneficial for students seeking to improve their time management skills. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 207 CONFLICT RESOLUTION 0 UNITS

This course is designed to introduce students to the meaning of conflict, the causes of conflict, and strategies for resolving interpersonal conflict. This course is beneficial for students seeking to improve their conflict resolution skills. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

NBUS 208 STRESS MANAGEMENT IN THE WORKPLACE 0 UNITS

This course is designed to acquaint students with key elements of stress management in the workplace. This course is beneficial for
students seeking to improve their skills in recognizing and managing stress. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NBUS 209 VALUES AND ETHICS 0 UNITS**

This course is designed to acquaint students with the importance of values and ethics in the workplace. This course is beneficial for students seeking to improve skills in interpreting how values influence actions and evaluating the impact of ethical behavior. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NBUS 210 CUSTOMER SERVICE 0 UNITS**

This noncredit course covers key skills and attitudes necessary to effectively meet the customer's need and teaches students best practices for the importance of values and ethics in the workplace. Not applicable to associate degree. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NBUS 211 DESIGN THINKING FOR THE ENTREPRENEUR 0 UNITS**

This course introduces students to the decision-making process called Design Thinking. Design Thinking emphasizes deep user understanding, intentional iteration and a focus on possibilities as a way to improve people's lives and enhance and create value for stakeholders. Design Thinking draws on methods from engineering and design and combines them with ideas from the arts, social services and the business world. Emphasis will be placed on experiential learning, identifying specific behaviors and skills that enable design thinkers to meet customer demands in all types of organizations including for-profits, non-profits, healthcare, arts and education. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NBUS 212 DEVELOPING YOUR BUSINESS PLAN 0 UNITS**

This is a course designed for students considering starting their own businesses. All major elements of a business plan will be covered, including financial statements, marketing, and competitive strategies. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NBUS 213 LEGAL ASPECTS OF SMALL BUSINESS 0 UNITS**

This course is designed for students interested in establishing a business and who need information about the legal issues involved. Legal aspects such as forms of ownership, licensing, and taxes will be covered. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NBUS 214 SUCCESS IN THE GIG ECONOMY 0 UNITS**

This course provides students with a hands-on class experience in starting a side business that can add to a student's income stream or grow into a full-time business. Students will learn to: identify income producing opportunities, develop business and promotion plans, and fund, launch, refine their business and make a profit. Emphasis will be placed on experiential learning, taking action and the iterative refinement process needed to start a new business. 9 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NCIS 201B CYBERSECURITY ADVANCED 0 UNITS SKILLS**

This course will build upon the intro to cybersecurity camp. Review cybersecurity career opportunities, cyber ethics, online safety, and cyber threats. Students will build upon cybersecurity principles, virtual machines, basic Windows and Linux administration security policies, fundamental CISCO network routing and CISCO packet tracer. As a culminating activity students will compete by analyzing and fixing vulnerabilities on the provided Windows and Linux images. 40 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NCIS 203 CYBERSECURITY COMPETITION 0 UNITS**

This course allows students to participate in cyber security competitions (CyberPatriot, National Cyber League, etc). Topics include an overview of cyber competitions, virtual machines, Linux operating systems and administration, Windows operating systems and administration, CISCO networking, and packet tracer. Through business scenarios, students will create checklists of potential vulnerabilities and work in teams to secure networks and sensitive data. 30 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NCIS 210 ORIENTATION TO IT CAREERS 0 UNITS**

This course enables students to analyze the field of information technology (IT). The class will include a survey of the IT professions, industry certifications, employment skills, definitions, associations, current issues, salaries, and self-assessment survey of skills and competencies. Students will be able to identify an IT program pathway at LPC. 18 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**NCIS 244 IT FUNDAMENTALS+ 0 UNITS**

Information Technology Fundamentals+ (ITF+) is the essential qualification for exploring a career in IT. This course will cover the topics of the CompTIA IT Fundamentals certification, which validates the knowledge and skills required to identify and explain the basics of computing hardware and software, IT infrastructure, applications and software, software development concepts, database fundamentals, and security. Technologies and trends of the IT industry and the exploration of IT careers. This course will prepare you to take the CompTIA certification exam. 36 hours.

Non-Degree Applicable, Noncredit Grading Option: OP

**ARTS 26 COLOR THEORY 3 UNITS**

A basic-level course highlighting color as an element for

**Revised Credit Courses**
communication and expression in all visual fields. Covers key color systems and their relevance to graphic and other visual arts and creative and technical aspects of color. Students who have completed, or are enrolled in, GDDM 51 may not receive credit. 27 hours lecture, 81 hours laboratory. Transfer: CSU, UC; C-ID# ARTS 270.

Degree Applicable, Credit Grading Option: OP

**BUSN 45 ENTREPRENEURSHIP 3 UNITS**

This course is designed for students who are interested in starting an entrepreneurial venture or new business. This course will cover the process of successfully launching, managing and growing their idea, emphasizing opportunity recognition and feasibility analysis. A practical study of the creation and essential skills required to start and grow an entrepreneur venture. It will also cover important topics such as developing a competitive advantage, protecting intellectual property and obtaining venture capital financing. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**DANC 6A CHOREOGRAPHY FOR THE 2 UNITS STAGE A**

Exploration of choreographic principles along with stage presentation leading to a full-length concert. Participation in dance works either as a choreographer or performer. Minimal participation in technical and business aspects of production. Strongly Recommended: DANC 5A with a minimum grade of C or DANC 5B with a minimum grade of C. 108 hours laboratory. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

**DANC 6B CHOREOGRAPHY FOR THE 2 UNITS STAGE B**

Choreograph dance works specifically for a full length stage production. Involved participation in the technical, creative and business aspects of stage production. Strongly Recommended: DANC 5A with a minimum grade of C or DANC 5B with a minimum grade of C. 108 hours laboratory. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

**ENGR 35 STATICS 3 UNITS**

A first course in engineering mechanics: properties of forces, moments, couples and resultants; two- and three-dimensional force systems acting on engineering structures in equilibrium; analysis of trusses, and beams; distributed forces, shear and bending moment diagrams, center of gravity, centroids, friction, and area and mass moments of inertia. Optional additional topics include fluid statics and cables. Prerequisite: PHYS 1A with a minimum grade of C, MATH 2 with a minimum grade of C. Strongly Recommended: ENGR 22 with a minimum grade of C. 36 hours lecture, 54 hours laboratory. Transfer: CSU, UC; C-ID# ENGR 130.

Degree Applicable, Credit Grading Option: OP

**FST 20 CO 2A HUMAN RESOURCE 2.5 UNITS MANAGEMENT FOR COMPANY OFFICERS**

This course provides information on the use of human resources to accomplish assignments, evaluating member performance, supervising personnel, and integrating health and safety plans, policies, and procedures into daily activities as well as the emergency scene. This is a required course for any Firefighter within State Fire Training and certification track who is seeking promotion to the rank of Company Officer. This course follows all applicable mandates and content as identified by the CSFM State Fire Training description. Prerequisite: Must be a current fire fighter and meet educational requirements for Firefighter 1 and Firefighter 2 certifications. 45 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**FST 21 CO 2B GENERAL 1.5 UNITS ADMINISTRATIVE FUNCTIONS FOR COMPANY OFFICERS**

This course provides information on general administrative functions and the implementation of department policies and procedures and addresses conveying the fire department’s role, image, and mission to the public. Prerequisite: Must be a current fire fighter and meet educational requirements for Firefighter 1 and Firefighter 2 certifications. 27 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**FST 22 CO 2C FIRE INSPECTIONS 2.5 UNITS AND INVESTIGATION FOR COMPANY OFFICERS**

This course provides information on conducting inspections, identifying hazards and addressing violations, performing a fire investigation to determine preliminary cause and securing the incident scene and preserving evidence. This course is a requirement for aspiring Firefighters seeking promotion as a company officer. Prerequisite: Must be a current fire fighter and meet educational requirements for Firefighter 1 and Firefighter 2 certifications. 45 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

**FST 23 CO 2D ALL-RISK 2.5 UNITS COMMAND OPERATIONS FOR COMPANY OFFICERS**

This course provides information on conducting incident size-up; developing and implementing an initial plan of action involving single and multi-unit operations for various types of emergency incidents to mitigate the situation following agency safety procedures; conducting pre-incident planning; and develop and conduct a post incident analysis. Prerequisite: Must be a current fire fighter and meet educational requirements for Firefighter 1 and Firefighter 2 certifications. 45 hours lecture. Transfer: CSU; C-ID# FIRE 230X.

Degree Applicable, Credit Grading Option: OP

**GDDM 45B DIGITAL PAINTING II 3 UNITS**

Students will build upon the fundamental techniques of digital painting. Students will create paintings from references as well as from imagination, paying close attention to lighting and color. Course will focus on development of style for commercial illustration. Prerequisite: GDDM 45A with a minimum grade of C. Strongly Recommended: GDDM 53 with a minimum grade of C, ARTS 2A with a minimum grade of C. 27 hours lecture, 81 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP
**GDDM 51  COLOR THEORY  3 UNITS**

A basic-level course highlighting color as an element for communication and expression in all visual fields. Covers key color systems and their relevance to graphic and other visual arts and creative and technical aspects of color. Students who have completed, or are enrolled in, ARTS 26 may not receive credit. 27 hours lecture, 81 hours laboratory. Transfer: CSU, UC; C-ID# ARTS 270.

Degree Applicable, Credit  Grading Option: OP

**GDDM 70  PHOTOSHOP AND LIGHTROOM FOR PHOTOGRAPHERS  3 UNITS**

Learn to use Lightroom and Photoshop in a workflow designed for digital photographers. Learn Best practices for digital workflows, database management, non-destructive parametric editing, color management, and output to print, web, slideshows, and photo book. Students who have completed, or are enrolled in, PHTO 70 may not receive credit. Strongly Recommended: PHTO 56 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. AA/AS GE. Transfer: CSU.

Degree Applicable, Credit  Grading Option: OP

**KIN 26  COACHING YOUTH SOCCER  3 UNITS**

This course is intended for those with an interest in coaching youth soccer. It will examine philosophies developed by US and European National Soccer Associations. The purpose is to explore best practices and age-appropriate activities, thereby enhancing the learning experience of the youth soccer participant. 54 hours lecture. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit  Grading Option: OP

**KIN LG  LIFEGUARDING  1.5 UNITS**

This course is designed to provide the students with the knowledge and skills to prevent, recognize and respond to emergencies and to provide care for injuries and sudden illness until emergency medical services arrive and take over. Upon successful completion of the Lifeguarding course requirements and exams, students will earn American Red Cross certificates. The Lifeguarding/First Aid certificates are valid for three (3) years, and the CPR/AED portion is valid for one (1) year. The student must be 15 years of age on or before the final scheduled session of the course. Strongly Recommended: KIN SWF1 with a minimum grade of C. 18 hours lecture, 27 hours laboratory. AA/AS GE. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit  Grading Option: OP

**MATH 66  MATH JAM FOR CALCULUS I  0.5-1 UNITS**

Math Jam for Calculus I is a credit course for students preparing for Calculus I. Embedded are essential study and life skills to develop each student holistically, including career development. Students will be learning basic skills and transfer-level material with the goal of preparing them to be successful in their upcoming class. It is strongly recommended that students taking this course are enrolled in a calculus course. 27-54 hours laboratory.

Degree Applicable, Credit  Grading Option: P/NP

**MATH 66C  CONCURRENT SUPPORT FOR CALCULUS I  1 UNIT**

This course offers structured support to students who are concurrently enrolled in Calculus I. The support course includes material to prepare students for the rigor of the calculus course by teaching learning skills necessary to succeed in college courses as well as review of relevant prerequisite algebraic, geometric and trigonometric concepts, and more in-depth investigation of core concepts in their concurrent math course. Corequisite: MATH 1. 54 hours laboratory.

Degree Applicable, Credit  Grading Option: P/NP

**MKTG 56  MARKETING STRATEGIES  3 UNITS**

Current marketing trends, strategies, and techniques. Introduction to online and social media marketing. The promotional process and techniques in the development of effective content creation and branding. Advanced theories, principles, and practices of customer service, customer loyalty, and the customer experience. 54 hours lecture. Transfer: CSU.

Degree Applicable, Credit  Grading Option: OP

**MUS 38  APPLIED LESSONS  1 UNIT**

Individualized study of the appropriate techniques and repertoire for the specific instrument or voice being studied. The emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juryed performance. Enrollment subject to a standardized audition demonstrating basic competencies in technique and musicianship in their major performance medium. Concurrent enrollment in one music theory class (MUS 8A, MUS 8B, MUS 10A or MUS 10B) and one performing ensemble (MUS 12, MUS 14, MUS 15, MUS 16, MUS 44, MUS 45, MUS 46A, MUS 46B, MUS 48). Corequisite: MUS 8A or MUS 8B or MUS 10A or MUS 10B and MUS 12 or MUS 14 or MUS 15 or MUS 16 or MUS 44 or MUS 45 or MUS 46A or MUS 46B or MUS 48. 54 hours laboratory. Transfer: CSU.

Degree Applicable, Credit  Grading Option: OP

**PHTO 70  PHOTOSHOP AND LIGHTROOM FOR PHOTOGRAPHERS  3 UNITS**

Learn to use Lightroom and Photoshop in a workflow designed for digital photographers. Learn Best practices for digital workflows, database management, non-destructive parametric editing, color management, and output to print, web, slideshows, and photo book. Students who have completed, or are enrolled in, PHTO 70 may not receive credit. Strongly Recommended: PHTO 56 with a minimum grade of C. 27 hours lecture, 81 hours laboratory. AA/AS GE. Transfer: CSU.

Degree Applicable, Credit  Grading Option: OP

**THEA 4  MODERN AMERICAN THEATER  3 UNITS**

The history, representation and contributions of various works of Modern American Theater and the study of Modern American theater as an instrument for expressing and understanding cultural identity. The focus will be on at least three of the following cultural groups: African Americans, Asian Americans, European Americans, Latin Americans and Native Americans. Strongly Recommended: ENG 1A with a minimum grade of C. 54 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit  Grading Option: GR
Arts

ARHS 1 (Introduction to Art History)- C-ID# ARTH 100
ECE 90 (Practicum - Supervised Experience)- C-ID# ECE 210
ENG 1AEX (Critical Reading and Composition Expanded)- C-ID# ENGL 100
MUS 17B (Jazz Combo 2)- C-ID# MUS 185
THEA 47A (Performance in Production: Introduction to Live Performance)- C-ID# THTR 191