
MISSION COLLEGE

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION
CERTIFICATION AND CERTIFICATE OF ACHIEVEMENT REQUIREMENTS

The CSU General Education Breadth (CSU GE-B) is a 39-unit general education program that allows California Community College students to fulfill lower-division GE requirements for the CSU. At least **60 TRANSFERABLE UNITS** of Major and General Education courses are required for transfer. Transfer students should: (1) meet with a counselor to create an EDUCATIONAL PLAN that will assist in identifying appropriate major and GE requirements; (2) request an [CSU GE-B CERTIFICATION](#) (when final transcripts are requested) to be sent to the transfer institution; and (3) with a counselor's assistance, determine eligibility for an Associate's Degree and/or an Associate's Degree for Transfer. FULL CERTIFICATION (completion of all areas), PARTIAL CERTIFICATION, and CSU GE-B FOR STEM CERTIFICATION (for BIO AS-T only) are available. **Completion of this pattern also satisfies requirements for a Certificate of Achievement.** *All courses are three (3) units unless otherwise noted.*

AREA A – ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING – 9 SEMESTER UNITS /12-15 QUARTER UNITS
Complete one course from each section (3 courses total). All courses from Area A must be complete with a "C" (or P) or better.

A1. Oral Communication:

COM 001, 001H Public Speaking
COM 020, 020H Argumentation and Debate

A2. Written Communication: ENG 001A English Composition I or ENG 001AX Intensive English Composition

A3. Critical Thinking

COM 020, 020H Argumentation and Debate
ENG 001B English Composition II*
ENG 001C Clear Thinking in Writing*
PHI 002 Introduction to Logic

PHI 003 Introduction to Problems in Ethics*
POL 020 Controversial Legal Issues
REA 054 Critical College Reading & Thinking
*(*also fulfills some CSU's 2nd composition graduation requirement)*

AREA B – SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING – 9 SEMESTER/12-15 QUARTER UNITS
Complete at least one course from the Biological Science area, the Physical Science area and the Mathematics area.

B1. Physical Sciences

AST 001 Astronomy
AST 003, 003H Astronomy with Lab (4,4)
AST 004 Astrobiology
CHM 001A, 001AH, 001B, 001BH General Chemistry (5,5)
CHM 002 Introductory Chemistry (4)
CHM 002 Introductory Chemistry
CHM 002L, Introductory Chemistry Lab (1)
CHM 012A, 012AH, 012B, 012BH Organic Chemistry I (5,5)

CHM 030A Fundamentals of Chemistry (4)
CHM 060 Survey of General, Organic, and Biological Chemistry (4)
GEO 001 Introduction to Physical Geography
PHY 002A,B General Physics (5,5)
PHY 004A,B,C Engineering Physics (5,4,4)
PHY 004D Atomic Physics (2)
PHY 010 Introduction to Physics (4)

B2. Biological Sciences

ANT 001 Physical Anthropology
BIO 001A, 001AH General Biology: Cells (5ea)
BIO 001B General Biology: Organisms (5)
BIO 004 Microbiology (5)
BIO 010 Introduction to Biology (4)
BIO 010 Introduction to Biology
BIO 010L Introduction to Biology Lab (1)
BIO 011 Human Biology (4)
BIO 012 Emerging Infectious Disease
BIO 014, 014H Introductory Neuroscience

BIO 016 Marine Biology (4)
BIO 017, 017H Genetics and Society
BIO 019 Oceans: Life in the Sea
BIO 022 Anatomy & Physiology for Allied Health Workers (4)
BIO 025 Environmental Biology
BIO 030 Tropical Ecology
BIO 032 California Plants and Animals (4)
BIO 047 Human Anatomy (5)
BIO 048, 048H Human Physiology (5,5)

B3. Laboratory Requirement

One of the selected science courses from above must contain a laboratory component. Lab courses are underlined.

AREA B – SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING (CONTINUED)**B4. Mathematics/Quantitative Reasoning**

Courses from Area B4 must be complete with a "C" (or P) better.

MAT 000D Trigonometry	MAT 004C Linear Algebra (4)
MAT 000G Math for the Liberal Arts Students (4)	MAT 008 Finite Mathematics
MAT 001 College Algebra (4)	MAT 009 Integrated Statistics II (5)
MAT 002 Pre-Calculus and Trigonometry (6)	MAT 010, 010H Elementary Statistics (4)
MAT 003A,003AH, 003B Analytic Geometry and Calculus (5,5)	MAT 012 Calculus for Business (4)
MAT 004A Intermediate Calculus (4)	MAT 019 Discrete Mathematics (4)
MAT 004B Differential Equations (4)	SOC 016 Introduction to Statistics in Social and Behavioral Sciences

AREA C – ARTS AND HUMANITIES – 9 SEMESTER/12-15 QUARTER UNITS

Complete three (3) courses or 9 semester/12-15 quarter units with at least one course in Arts **and** one course in Humanities.

C1. Arts

ART 001A Survey of Western Art I	ART 035A Life Drawing
ART 001B Survey of Western Art	GDS 011 History of Modern Design (Also ART 011)
ART 001D Survey of Modern Art	GDS 012 History of Photography
ART 004 Art Appreciation	GDS 015 Photo-media and Social Change
ART 007 Survey of Asian Art	KIN 080 Dance Appreciation
ART 011 History of Modern Design (Also GDES 011)	MUS 005 Fundamentals of Music
ART 031A Drawing	MUS 010 Music Appreciation
ART 033A Basic Design: Two-Dimensional	MUS 016 Survey of Rock and Popular Music
ART 034A Introduction to Digital Art	MUS 017 Music of the World

C2. Humanities

ARB 001, 002 First/Second Semester Arabic	HIS 033, 033H Women's Issues Past and Present (FA15)
CHI 001, 002 First/Semester Chinese	HUM 001A,001B Human Values in and from the Arts
COM 012 Intercultural Communication	HUM 007 International Films
ENG 001B English Composition II (SP07)	HUM 015 Introduction to Film Analysis (Also ENG 15)
ENG 005A,B English Literature	HUM 016A Hispanic Roots and Culture
ENG 006B World Literature	HUM 018, 018H African American Culture/Humanities
ENG 007A,B American Literature	HUM 020 Introduction to Asian Roots and Culture
ENG 013 Chicana/o-Latina/o Literature	HUM 022 Introduction to Islam
ENG 015 Introduction to Film Analysis (Also HUM 15)	HUM 024 The Asian American Experience
ENG 043 Classical Mythology	JPN 001,002 First/Second Semester Japanese (5,5)
ENG 048 Introduction to Shakespeare	PHI 001 Introduction to Philosophy
ENG 070 Creative Writing	PHI 003 Introduction to Problems in Ethics
FRN 001, 002 First/Second Semester French (5,5)	PHI 005 Introduction to Social and Political Philosophy
FRN 003, 004 Third/Fourth Semester French (5,5)	POL 003 Introduction to Social and Political Philosophy
FRN 001L,002L French Laboratory (.5,.5)	POL 007 International Films
HIS 004A, 004B History of Western Civilization (FA14)	SPA 001, 002 First/Second Semester Spanish (5,5)
HIS 004AH, 004BH History of Western Civilization (FA15)	SPA 003, 004 Third/Fourth Semester Spanish (5,5)
HIS 015, 015H World History to 1500 (FA15)	SPA 001L, 002L Spanish Laboratory (.5,.5)
HIS 016, 016H World History since 1500 (FA15)	SPA 050A,050B Basic Conversational Spanish (3,3)
HIS 017A, 017AH History of the United States to 1877 (FA15)	VIE 001, 002 First/Second Semester Vietnamese – Elementary (5,5)
HIS 017B, 017BH History of the United States since 1877 (FA15)	VIE 049A,049B Vietnamese Language/Culture for Fluent Speakers (3,3)

C3. One additional course from either C1 or C2. (Biology A5-T majors can defer Area C3 until after transfer).

