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# MISSION COLLEGE

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## 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 IGETC 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 (completion of all areas except one course in Area C and one course in Area D) 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/12 QUARTER UNITS

Complete one course from each section. 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

#### 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 2<sup>nd</sup> composition graduation requirement)*

### AREA B – SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING – 9 SEMESTER/12 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 Astronomy with Lab (4)  
AST 003H Astronomy with Lab – Honors (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 007 Biochemistry: An Introduction to Structure, Enzymes, and Metabolism

CHM 012A, 012AH, 012B, 012BH Organic Chemistry I (5,5)  
CHM 030A,B Fundamentals of Chemistry (4,4)  
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 Introductory Neuroscience  
BIO 015 Human Genetics  
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 041 Principles of Animal Biology (5)  
BIO 042 Principles of Plant Biology (5)  
BIO 043 043H Principles of Cell and Molecular Biology (5)  
BIO 047 Human Anatomy (5)  
BIO 048 048H Human Physiology (5)

#### B3. Laboratory Requirement

One of the selected science courses from above must be a laboratory course. 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 000G Math for the Liberal Arts Students (4)

MAT 001 College Algebra (4)

MAT 002 Pre-Calculus and Trigonometry (6)

MAT 003A,003AH, 003B Analytic Geometry and Calculus (5,5)

MAT 004A Intermediate Calculus (4)

MAT 004B Differential Equations (4)

MAT 004C Linear Algebra (4)

MAT 008 Finite Mathematics

MAT 009 Integrated Statistics II (5)

MAT 010, 010H Elementary Statistics (4)

MAT 012 Calculus for Business (4)

MAT 019 Discrete Mathematics (4)

SOC 016 Introduction to Statistics in Social and Behavioral Sciences

## AREA C – ARTS AND HUMANITIES – 9 SEMESTER/12 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 001B Survey of Western Art

ART 001D Survey of Modern Art

ART 004 Art Appreciation

ART 007 Survey of Asian Art

ART 011 History of Modern Design (Also GDES 011)

ART 031A Drawing

ART 033A Basic Design: Two-Dimensional

ART 034A Introduction to Digital Art

ART 035A Life Drawing

GDS 011 History of Modern Design (Also ART 011)

GDS 012 History of Photography

GDS 015 Photo-media and Social Change

KIN 080 Dance Appreciation

MUS 005 Fundamentals of Music

MUS 010 Music Appreciation

MUS 016 History of Rock Music

MUS 017 Music of the World

### C2. Humanities

ARB 001, 002 First/Second Semester Arabic

CHI 001, 002 First/Semester Chinese

CHI 050A, 050B Conversational Chinese/Mandarin

COM 012 Intercultural Communication

ENG 001B English Composition II (SP07)

ENG 005A,B English Literature

ENG 006B World Literature

ENG 007A,B American Literature

ENG 013 Chicana/o-Latina/o Literature

ENG 015 Introduction to Film Analysis (Also HUM 15)

ENG 043 Classical Mythology

ENG 048 Introduction to Shakespeare

ENG 070 Creative Writing

FRN 001, 002 First/Second Semester French (5 ea)

FRN 003, 004 Third/Fourth Semester French (5 ea)

FRN 001L,002L French Laboratory (.5 ea)

HIS 004A, 004B History of Western Civilization (FA14)

HIS 004AH, 004BH History of Western Civilization (FA15)

HIS 015, 015H World History to 1500 (FA15)

HIS 016, 016H World History since 1500 (FA15)

HIS 017A, 017AH History of the United States to 1877 (FA15)

HIS 017B, 017BH History of the United States since 1877 (FA15)

HIS 033, 033H Women’s Issues Past and Present (FA15)

HUM 001A,001B Human Values in and from the Arts

HUM 007 International Films (Also POL 7)

HUM 015 Introduction to Film Analysis (Also ENG 15)

HUM 016A Hispanic Roots and Culture

HUM 018, 018H African American Culture/Humanities

HUM 020 Introduction to Asian Roots and Culture

HUM 022 Introduction to Islam

HUM 024 The Asian American Experience

JPN 001,002 First/Second Semester Japanese (5 ea)

PHI 001 Introduction to Philosophy

PHI 003 Introduction to Problems in Ethics

PHI 005 Introduction to Social and Political Philosophy

POL 007 International Films (Also HUM 7)

SPA 001, 002 First/Second Semester Spanish (5 ea)

SPA 003, 004 Third/Fourth Semester Spanish (5 ea)

SPA 001L, 002L Spanish Laboratory (.5 ea)

SPA 050A,050B Basic Conversational Spanish

VIE 001, 002 First/Second Semester Vietnamese – Elementary (5 ea)

VIE 049A,049B Vietnamese Language/Culture for Fluent Speakers

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

**AREA D – SOCIAL SCIENCES – 9 SEMESTER/12 QUARTER UNITS**

Complete three (3) courses from at least two (2) different disciplines. Biology AS-T majors can defer 1 course until after transfer.

***NOTE: It is STRONGLY RECOMMENDED to complete Section 1 in order to satisfy CSU's American History and Institutions (AH&I) graduation requirement.***

**Section 1: The American History & Institution Requirement (AH&I).**

POL 001, 001H American Government

**AND**

HIS 017A, 017AH United States History

**OR**

HIS 017B, 017BH United States History

**Section 2:**

ANT 003 Cultural Anthropology  
 ANT 045 Human Sexuality (Also PSY/SOC 045)  
 ANT 055 Magic, Witchcraft and Religion  
 BUS 061 Business and Society  
 COM 025 Mass Communication and Society  
 CHD 001 Child Growth and Development  
 CHD 002 Child, Family and Community (FA11)  
 CHD 013 Working with Children in a Diverse Society (FA15)  
 COU 055 Valuing Diversity  
 ECN 001A Principles of Macroeconomics  
 ECN 001B Principles of Macroeconomics  
 ECN 006 The Global Economy  
 GEO 002 Introduction to Cultural Geography  
 GEO 006 World Regional Geography  
 GLB 001 Global Perspectives  
 GLB 002 Global Issues  
 GLB 004 The Developing World  
 HIS 004A, 004AH, 004B, 004BH History of Western Civilization  
 HIS 015, 015H World History to 1500  
 HIS 016, 016H World History since 1500  
 HIS 017A, 017AH, 017B, 017BH United States History  
 HIS 020 History and Geography of California  
 HIS 031 History of East Asia  
 HIS 033, 33H Women's Issues Past and Present  
 HUM 007 International Films (Also POL 7)  
 HUM 016A Hispanic Roots and Cultures  
 HUM 018 African American Roots and Cultures (FA14)

HUM 018H African American Roots and Cultures – Honors (FA17)  
 HUM 024 The Asian American Experience  
 POL 001, 001H American Government  
 POL 002 Comparative Government  
 POL 004 International Relations  
 POL 005 Political Science Research Methodology  
 POL 006 Politics of Race, Class and Gender  
 POL 007 International Films (Also HUM 7)  
 POL 020 Controversial Legal Issues  
 PSY 001, 001H General Psychology  
 PSY 007 Biological Psychology  
 PSY 010 Social Psychology  
 PSY 012 Human Growth and Development  
 PSY 015, 015H Introduction to Research Methods  
 PSY 025 Introduction to Abnormal Psychology  
 PSY 030 Psychology of Addiction and Substance Abuse  
 PSY 045 Human Sexuality (Also ANT/SOC 045)  
 PSY 055 Psychology of Death and Dying  
 SOC 001, 001H Introduction to Sociology  
 SOC 002, 002H Social Problems  
 SOC 021 Sociology of Minorities in the U.S.  
 SOC 040 Marriage and Family  
 SOC 045 Human Sexuality (Also ANT/PSY 045)  
 SOC 047 Sociology of Criminology  
 SOC 050 Introduction to Criminal Law  
 SOC 060 Community and Justice System (FA15)

**AREA E – LIFELONG LEARNING AND SELF-DEVELOPMENT – 3 SEMESTER/4 QUARTER UNITS**

Choose a course or courses from the following to total at least three (3) semester units.

ANT 045 Human Sexuality (Also PSY/SOC 045)  
 BIO 025 Environmental Biology  
 CHD 002 Child, Family and Community (FA11)  
 CHD 013 Working with Children in a Diverse Society (FA15)  
 CHD 017 Child Health and Safety (FA15)  
 CHL 010 Community Health Problems  
 COM 004 Small Group Communication  
 COM 008 Interpersonal Communication  
 COM 012 Introduction to Intercultural Communication  
 COU 005 Strategies for Success  
 COU 012 Careers and Life Styles

COU 017 Transfer Success and Life Transitions  
 COU 055 Valuing Diversity (FA15)  
 HED 002 Health and Lifestyle  
 KIN 078 Introduction to Kinesiology  
 LIB 010, 010H Information Competency (1)  
 NTR 015 Human Nutrition  
 NTR 052 Nutrition for Children  
 PSY 012 Human Growth and Development  
 PSY 045 Human Sexuality (Also PSY/SOC 045)  
 SOC 045 Human Sexuality (Also ANT/PSY 045)

**PHYSICAL EDUCATION:**

1. One (1) unit of physical education courses (KIN/WHP/PE) can be applied toward Area E. See [www.assist.org](http://www.assist.org) for complete listing of approved courses.
2. Two (2) units of physical education courses (KIN/WHP/PE) satisfy a graduation requirement at SJSU and CSUEB unless there is an approved exception. Contact individual campus for further information.



**NOTE: Courses may be taken to satisfy only one GE Area.**

**Requirements are subject to change.**

Visit the ASSIST website at [WWW.ASSIST.ORG](http://WWW.ASSIST.ORG) for a complete listing of CSU transferable courses as well as updated general education and major requirements.