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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 [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 English Composition with Additional Support

#### 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/12-15 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 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/12-15 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 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 Survey of Rock and Popular Music

MUS 017 Music of the World

### C2. Humanities

ARB 001, 002 First/Second Semester Arabic

CHI 001, 002 First/Semester Chinese

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 (5,5)

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

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

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

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 (5,5)

PHI 001 Introduction to Philosophy

PHI 003 Introduction to Problems in Ethics

PHI 005 Introduction to Social and Political Philosophy

POL 003 Introduction to Social and Political Philosophy

POL 007 International Films

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

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

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

SPA 050A,050B Basic Conversational Spanish (3,3)

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

VIE 049A,049B Vietnamese Language/Culture for Fluent Speakers (3,3)

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



**CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION-BREADTH  
2020-2021 CERTIFICATION AND CERTIFICATE OF ACHIEVEMENT ADVISING GUIDE**

CIRCLE COMPLETED MISSION COLLEGE COURSES	STATUS
<b>AREA A ♦ ORAL &amp; WRITTEN COMMUNICATION ♦ 3 courses, 9 semester/12-15 quarter units</b>	
<b>A1: ORAL COMMUNICATION: COM 1, 1H, 20, 20H (COM 4 if completed by Fall 2003)</b> Course(s) from other college(s)/AP Exams:	
<b>A2: WRITTEN COMMUNICATION: ENG 1A, 1AX</b> Course(s) from other college(s)/AP Exams:	
<b>A3: CRITICAL THINKING: COM 20, 20H; ENG 1B*, 1C*; PHI 2, 3* (*also fulfills some CSU's 2<sup>nd</sup> comp grad req); POL 20; REA 54, 53(FA12-SP13 only)</b> Course(s) from other college(s)/AP Exams:	
<b>AREA B ♦ NATURAL SCIENCE &amp; MATHEMATICS ♦ 3 courses, 9 semester/12-15 quarter units (One science course must have a laboratory)</b>	
<b>B1: PHYSICAL SCIENCES: AST 1, 2, 3, 3H, 4; CHM 1A, 1AH, 1B, 1BH, 2, 2, 2L, 7, 12A, 12AH, 12B, 12BH, 30A, 30B, 60; EGR 3; GEO 1; PHY 2A, 2B, 4A, 4B, 4C, 4D, 10</b> Course(s) from other college(s)/AP Exams:	
<b>B2: BIOLOGICAL SCIENCES: ANT 1, 1L;</b> <b>BIO 1A, 1AH, 1B, 4, 10, 10, 10L 11, 12, 14, 14H, 15, 16, 17, 17H, 19, 22, 25, 30, 30, 32, 41, 42, 43, 43H, 47, 48, 48H</b> Course(s) from other college(s)/AP Exams:	
<b>B3: LABORATORY SCIENCE: Underlined courses from B1 and B2 contain a lab component.</b> Course(s) from other college(s)/AP Exams:	
<b>B4: MATH: MAT D, G, 1, 2, 3A, 3AH, 3B, 4A, 4B, 4C, 8, 9, 10, 10H, 12, 19; SOC 16</b> Course(s) from other college(s)/AP Exams:	
<b>AREA C ♦ ARTS AND HUMANITIES ♦ 3 courses, 9 semester/12-15 quarter units</b>	
<b>C1: ARTS: ART 1A, 1B, 1D, 4, 7, 11, 31A, 33A, 34A, 35A; GDS 11, 12, 15; KIN 080; MUS 1, 2, 5, 5A, 10, 16, 17; WHP 40 (FA07)</b> Course(s) from other college(s)/AP Exams:	
<b>C2: HUMANITIES: ARB 1, 2, 50A; CHI 1, 2, 50A, 50B; COM 12; ENG 1B (FA07), 5A, 5B, 6B, 7A, 7B, 12, 13, 14, 15, 18, 43, 48, 70; FRN 1, 1L, 2, 2L, 3, 4, 5, 6, 50A, 50B, 51A, 51B, 62; GDS 13; GLB 5; HIS 4A (FA14), 4AH, 4B (FA14), 4BH, 15, 15H, 16, 16H, 17A, 17AH, 17B, 17BH, 33, 33H (HIST 15-33H FA15); HUM 1A, 1B, 7, 13, 15, 16A, 18, 18H, 20, 22, 24; ITAL 1, 1L, 2, 50A; JPN 1, 2, 3A, 3B, 4A, 50A, 50B; PHI 1, 3, 5; POL 3, 7; PORTG 49A, 49B, 50A, 50B, 51A, 51B; SPA 1, 1L, 2, 2L, 3, 4, 5, 6, 49A, 49B, 50A, 50B, 51A, 51B; VIE 1, 1L, 2 2L, 49A, 49B, 50A</b> Course(s) from other college(s)/AP Exams:	
<b>C3: CHOOSE ADDITIONAL COURSE FROM C1 OR C2 (not required for BIO AS-T majors)</b> Course(s) from other college(s)/AP Exams:	
<b>AREA D ♦ SOCIAL &amp; BEHAVIORAL SCIENCES ♦ 3 courses from at least 2 disciplines, 9 semester/12 quarter units (2 courses for BIO AS-T)</b>	
<b>AMERICAN HISTORY &amp; INSTITUTIONS (AH&amp;I) STRONGLY RECOMMENDED:</b> <b>POL 1, 1H + HIS 17A, 17AH or 17B, 17BH (HIS 17A&amp;17B; HIS 17A&amp;20; HIS 17B&amp;20; POL 1 if done by Spring 2004)</b> Course(s) from other college(s)/AP Exams:	
<b>SOCIAL SCIENCES: ANT 3, 39B, 45, 51, 55; BUS 61; CHD 1, 2 (FA11), 13 (FA15); COM 25; COU 55; ECN 1A, 1B, 6; GEO 2, 6; GLB 1, 1A, 2, 4, 5, 6; HIS 4A, 4AH, 4B, 4BH, 15, 15H, 16, 16H, 17A, 17AH, 17B, 17BH, 20, 31, 33, 33H; HUM 7, 16A, 18 (FA14), 24; POL 1, 1H, 2, 4, 5, 6, 7, 10, 20; PSY 1, 1H, 2A, 7, 10, 12, 15, 15H, 25, 30, 33, 40, 45, 48, 55; SJS 1, 2, 3; SOC 1, 1H, 2, 2H, 21, 24, 32, 38, 39A, 39B, 40, 41, 43, 45, 46, 47, 50, 60 (FA15); SOCS 1, 1A, 2, 3, 4, 5, 6</b> Course(s) from other college(s)/AP Exams:	
<b>AREA E ♦ LIFELONG LEARNING ♦ 1 course, 3 semester/4 quarter units</b>	
<b>ANT 45; BIO 25; CHD 2(FA11), 13 (FA15), 17(FA15); CHL 10; COM 4 (FA15), 8, 12; COU 5, 12, 17, 55 (FA15); HED 2, 9; HOC 6, 8; KIN 78; LIB 10 (FA15), 10H (FA15); NTR 15, 52; PSY 12, 45, 48, 55; SOC 45, 46; WHP 30 (FA11)</b> Course(s) from other college(s)/AP Exams/DD214:	
<b>PHYSICAL EDUCATION:</b> One (1) unit of physical education courses (KIN/WHP/PE) can be applied toward Area E. See <a href="http://www.assist.org">www.assist.org</a> for complete listing of approved courses. Visit <a href="http://SJSU.edu">SJSU.edu</a> for PE requirement and exemptions.	