

MISSION COLLEGE

GRADUATION REQUIREMENTS 2022-2023

ASSOCIATE IN ARTS and ASSOCIATE IN SCIENCE DEGREES

Mission College will confer the *ASSOCIATE IN ARTS (A.A.)* or *ASSOCIATE IN SCIENCE (A.S.)* degree upon a student who successfully completes requirements listed below in accordance with [WVMCCD Board Policy 4025](#) and [Title 5 § 55063](#). Graduation requirements (Major, Competency, and General Education) are listed in the College Catalog at the time studies begin. Those requirements may be followed throughout the course of study as long as the student remains in continuous enrollment which is defined as enrollment for at least one regular semester, summer session or winter session each academic year. If a break in attendance occurs, the graduation requirements shall become those listed in the College Catalog which is current at the time studies are resumed.

Reciprocity Agreement: Students completing all of the general education and graduation competency requirements at a participating college will be given full credit for having completed the Mission College general education-graduation requirements, including reading, writing, oral communication, and mathematics

- RESIDENCY REQUIREMENT:** A minimum of 12 degree-applicable units must be completed at Mission College.
- SCHOLARSHIP REQUIREMENTS:** An overall grade point average of 2.0 in **60 units** of work reflected on all college transcripts.
- MAJOR REQUIREMENT:** Fulfill a specialized major as listed in the college catalog with a grade of C (or "P") or better in each major requirement.
- BASIC COMPETENCY REQUIREMENTS:** Proficiency in the following areas is required for an Associate in Arts and Associate in Science degrees:

Reading:

- Completion of ENG 001A or ENG 001AX (grade of C or better) or REA 054 (C or P or better) OR
- Completion of a transfer-level course approved to satisfy the First-Year Composition requirement at a college or university (C or P or better).

Writing:

- Completion of the ENG 001A or ENG 001AX (grade of C or better) OR
- Completion of a transfer-level course approved to satisfy the First-Year Composition requirement at a college or university (C or P or better).

Oral Communication:

- Completion of COM 001, 001H, 015, 020, 020H for the *A.A. Degree* OR
- Completion of COM 001, 001H, 004, 015, 020 or 020H for the *A.S. Degree* OR
- Competency determined by Communication Studies Department committee evaluation process.

Mathematics:

- Completion of MAT 000C or equivalent (C or P or better) OR
- Completion of two semesters of High School Algebra II, Integrated Math 3, Common Core Math 3 or equivalent or higher with a grade of C- or better in both semesters OR
- Completion of a transfer-level course approved to satisfy the Quantitative Reasoning requirement at a college or university (C or P or better) OR
- A minimum score of 70% on an Intermediate Algebra departmental exam

- AREA REQUIREMENTS (GENERAL EDUCATION):** Complete a **minimum of 24 units** from **Areas A – F**, plus additional courses to meet unit requirements. All courses are three (3) semester units unless otherwise noted.

AREA A – LANGUAGE AND RATIONALITY – 6 semester units / 9 quarter units minimum

- English Composition course

ENG 001A English Composition I or ENG 001AX English Composition with Additional Support

- One additional course:

COM 001, 001H Public Speaking

COM 004 Small Group Communications

COM 015 Fundamentals of Oral Communication

COM 020, 020H Argumentation and Debate

CIS 001 Introduction to Computer Science and Technology (4)

ENG 001B English Composition

ENG 001C Clear Thinking in Writing

EGR 030 Intro to Computing for Engineers

FRN 003,004 Intermediate Language (5 ea)

MAT 000C or equivalent or any transfer level Math course (3-6 units)

PHI 002 Logic

PHI 003 Introduction to Ethics

POL 020 Controversial Legal Issues

REA 054 Critical College Reading & Thinking

SOC 016 Introduction to Statistics in Social and Behavioral Sciences

SPA 003, 004 Intermediate Language (5 ea)

AREA B – NATURAL SCIENCES – 3 semester units / 4.5 quarter units minimum

These courses examine the physical universe, its life forms and its natural phenomena. Courses with a lab are underlined.

ANT 001 Biological Anthropology

ANT 001L Biological Anthropology Laboratory

AST 001 Astronomy

AST 003, 003H Astronomy with Lab (4)

AST 004 Astrobiology

BIO 001A, 001AH, 001B General Biology (5 ea)

BIO 004 Microbiology (5)

BIO 010 Introduction to Biology

BIO 010L Introduction to Biology Lab (1)

BIO 011 Human Biology (4)

BIO 012, 012H Emerging Infectious Disease

BIO 014, 014H Introductory Neuroscience

BIO 016 Marine Biology (4)

BIO 017, 017H Genetics and Society

BIO 018, 018H The Biology of Cancer

BIO 019 Oceans: Life in the Sea

BIO 022 Anat. & Physiology for Allied Health Workers (4)

BIO 025, 025H Environmental Biology

BIO 030 Tropical Ecology (3)

BIO 030L Tropical Ecology Field Studies (1)

BIO 032 California Plants and Animal (4)

BIO 047, 048, 048H Human Anatomy, Physiology (5 ea)

CHM 001A, 001AH, 001B, 001BH General Chemistry (5 ea)

CHM 002 Introductory Chemistry

CHM 002L Introduction to Chemistry Lab (1)

CHM 012A, 012AH, 012B, 012BH Organic Chemistry (5 ea)

CHM 030A Fundamentals of Chemistry (4)

CHM 060 Survey of General, Organic and Biological Chemistry (4)

GEO 001 Introduction to Physical Geography

NTR 015 Human Nutrition

NTR 040 Nutrition and Disease

PHY 002A, 002B General Physics (5ea)

PHY 004A, 004B, 004C Engineering Physics (5ea)

PHY 004D Engineering Physics - Atomic (2)

PHY 010 Introduction to Physics (4)

PSY 007 Biological Psychology

The requirements listed here were accurate at the time of publication.
Please visit the Counseling Office (counseling.missioncollege.edu) for updated requirements.

AREA C – HUMANITIES – 3 semester units / 4-5 quarter units minimum

These courses develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural creation. **NOTE: Three 1-unit classes alone may not be used to satisfy this category.**

ARB 001, 002 First, Second Semester Arabic	GDS 073 Digital Photography
ART 001A Survey of Western Art I	HIS 004A, 004AH History of Western Civilization
ART 001B Survey of Western Art II	HIS 004B, 004BH History of Western Civilization
ART 001D Survey of Modern Art	HIS 015, 015H World History to 1500
ART 004 Art Appreciation	HIS 016, 016H World History since 1500
ART 007 Survey of Asian Art	HIS 017A, 017AH History of the United States to 1877
ART 011 The History of Modern Design	HIS 017B, 017BH History of the United States since 1877
ART 031A,B Drawing	HIS 033, 033H Women's Issues Past and Present [#]
ART 033A Basic Design: Two-Dimensional	HUM 001A,001B Human Values in and from the Arts
ART 033B Basic Design: Three-Dimensional	HUM 007 International Films
ART 034A,B Introduction to/Advanced Digital Art	HUM 015 Introduction to Film Analysis
ART 035A,B Life Drawing	HUM 016A Hispanic Roots and Culture [#]
ART 039A Survey of Printmaking	HUM 018, 018H African American Culture/Humanities [#]
ART 047A,B Watercolor	HUM 020 Asian Roots and Culture [#]
ART 048A,B Airbrush Painting	HUM 022 Introduction to Islam [#]
ART 049A,B Painting	HUM 024 The Asian American Experience [#]
ART 065A,B Ceramics-Handbuilding	HUM 030, Cultural Studies [#]
ART 067A,B Ceramics-Potter's Wheel	JPN 001,002 First/Second Semester Japanese - Elementary (5 ea)
ART 075A,B Metalsmithing	KIN 041 – 048 All Dance Classes see catalog for complete course titles and units) (1 ea)
ART 078A,B Furniture Design and Construction	KIN 080 Dance Appreciation (formerly WHP 040)
ART 085A,B Sculpture	LNG 001 Introduction to Language and Linguistics
ART 088A,B Metal Sculpture Casting	MUS 005 Fundamentals of Music Theory
CHI 001, 002 First/Second Semester Chinese	MUS 006 Commercial Music Theory I
COM 012 Intercultural Communication [#]	MUS 007 Commercial Music Theory II
ENG 001B English Composition	MUS 010 Music Appreciation
ENG 005A,005B English Literature	MUS 016 Survey of Rock and Popular Music
ENGL 006B World Literature	MUS 017 Musics of the World
ENG 007A,007B American Literature	MUS 030A,B/031A,B Beginning/Intermediate Piano (1 ea)
ENG 012 African American Literature [#]	MUS 032A,B/033A,B Beginning/Intermediate Voice (1 ea)
ENG 013 Chicana/o-Latina/o Literature [#]	MUS 036A,B Beginning Guitar (1 ea)
ENG 015 Introduction to Film Analysis	MUS 041A, B Mission Chorus (1 ea)
ENG 043 Classical Mythology	MUS 048A, B Symphony Orchestra (1 ea)
ENG 048 Introduction to Shakespeare	PHI 001 Introduction to Philosophy
ENG 070 Creative Writing	PHI 002 Logic
ETH 012 African American Literature [#]	PHI 003 Introduction to Problems in Ethics
ETH 013 Chicana/o-Latina/o Literature [#]	PHI 005 Introduction to Social and Political Philosophy
ETH 016A Hispanic Roots and Culture [#]	POL 003 Introduction to Social and Political Philosophy
ETH 018, 018H African American Culture and Humanities [#]	SPA 001,002 First/Second Semester Spanish - Elementary (5 ea)
ETH 024 The Asian American Experience [#]	SPA 001L,2L Spanish Lab (.5 ea)
FRN 001, 002 First/Second Semester French - Elementary (5 ea)	SPA 003,004 Third/Forth Semester Spanish - Intermediate (5 ea)
FRN 003, 004 Third/Forth Semester French - Intermediate (5 ea)	SPA 050A,B Basic Conversational Spanish
FRN 001L, 2L French Lab (0.5 ea)	VIE 001, 002 First/Second Semester Vietnamese - Elementary (5 ea)
GDS 011 The History of Modern Design	VIE 049A, 049B Vietnamese Language & Culture for Fluent Speakers
GDS 012 History of Photography	
GDS 015 Photo-media and Social Change	

NOTE: Course noted with an # also satisfy the AA/AS Area F requirement. See page 2 for more information.

The requirements listed here were accurate at the time of publication.
Please visit the Counseling Office (counseling.missioncollege.edu) for updated requirements

AREA D — SOCIAL & BEHAVIORAL SCIENCES

Series 1: Social and Behavioral Sciences (3 sem units / 4-5 qtr units): These courses deal with human, social, psychological, political, and economic institutions and behavior and their historical background, selected from among the following:

ANT 002 Introduction to Archaeology	KIN 081 Sports in Society
ANT 003 Cultural Anthropology [#]	POL 001, 001H American Government
ANT 055 Magic, Witchcraft, & Religion [#]	POL 002 Comparative Government
BUS 061 Business and Society	POL 004 International Relations
CHD 001 Child Growth & Development	POL 005 Political Science Research Methodology
CHD 002 Child, Family and Community	POL 006 Politics of Race, Class and Gender [#]
CHD 013 Teaching Children in a Diverse Society [#]	POL 007 International Films
COM 025 Mass Communication and Society	POL 020 Controversial Legal Issues
COU 055 Valuing Diversity [#]	PSY 001, 001H General Psychology
ECN 001A Principles of Macroeconomics	PSY 007 Biological Psychology
ECN 001B Principles of Microeconomics	PSY 010 Social Psychology
ECN 006 The Global Economy	PSY 012 Human Growth and Development
ETH 016A Hispanic Roots and Culture [#]	PYS 015, 015H Introduction to Research Methods
ETH 018, 018H African American Culture and Humanities [#]	PSY 025 Introduction to Abnormal Psychology
ETH 024 The Asian American Experience	PSY 030 Psychology of Addiction and Substance Abuse
ETH 044, 044H African American History [#]	PSY 045 Human Sexuality (Also ANT/SOC 045)
GEO 002 Introduction to Cultural Geography	SJS 001 Social Justice [#]
GEO 006 World Regional Geography	SJS 002 Introduction to Gender Studies [#]
HIS 004A, 004AH, 004B, 004BH History of Western Civilization	SJS 003 Introduction to LGBTQ Studies [#]
HIS 015, 015H World History to 1500	SOC 001, 001H Introduction to Sociology [#]
HIS 016, 016H World History since 1500	SOC 002, 002H Social Problems
HIS 017A, 017AH United States History to 1877	SOC 021 Sociology of Minorities in the U.S. [#]
HIS 017B, 017BH United States History since 1877	SOC 040 Marriage and Family
HIS 020 History and Geography of California	SOC 045 Human Sexuality
HIS 033, 033H Women's Issues Past and Present [#]	SOC 047 Sociology of Criminology
HIS 044, 044H African American History [#]	SOC 050 Introduction to Criminal Justice
HUM 016A Hispanic Roots and Culture [#]	SOC 054 Concepts of Criminal Law
HUM 018, 018H African American Roots and Culture [#]	SOC 060 Community and the Justice System
HUM 024 The Asian American Experience [#]	

Series 2: American History and Institutions (3 sem/4-5 qtr units): Demonstrate proficiency in American history or American government on a departmental examination OR complete a course with a grade of C (or "P") or better from one of the following:

ETH 044, 044H African American History [#]	HIS 020 History and Geography of California
HIS 017A, 017AH History of United States to 1877	HIS 044, 044H African American History [#]
HIS 017B, 017BH History of United States since 1877	POL 001, 001H American Government

AREA E – LIFELONG LEARNING – 3 semester/4-5 quarter units minimum: The Lifelong Learning requirement will be completed by the selection of either:

- Option 1:** Three (3) units from Area A-2, B, C or D; OR
Option 2: Three (3) units from courses listed below which cultivate self-understanding and development of the student as an integrated individual capable of coping with life in our modern society, assist students to acquiring the skills necessary to adapt to change, gain self-understanding, and set achievable goals.

NOTE: All Kinesiology (KIN/WHP/PE) courses are accepted in Area E (except Theory courses). However, only one unit from this area will count for General Education.

BIO 025 Environmental Biology	HOC 008 Community Health Problems
BUS 061 Business and Society	KIN 068 Sport Psychology
CHD 002 Child, Family and Community	KIN 078 Introduction to Kinesiology
CHD 013 Teaching in a Diverse Society [#]	KIN 079 Lifetime Fitness
CHD 017 Child Health and Safety	LIB 010, 010H Information Competency (1)
COM 004 Small Group Communication	NTR 015 Human Nutrition
COM 008 Interpersonal Communication	NTR 040 Nutrition and Disease
COM 012 Introduction to Intercultural Communication [#]	PSY 012 Human Growth and Development
COU 005 Strategies for Success	PSY 025 Introduction to Abnormal Psychology
COU 012 Careers and Lifestyles	PSY 030 Psychology of Addiction and Substance Abuse
COU 012A Careers and Lifestyles (1)	PSY 045 Human Sexuality
COU 017 Transfer Success and Life Transitions	SOC 002, 002H Social Problems
COU 023 Becoming a Master Student-Athlete (2)	SOC 021 Sociology of Minorities in the U.S. [#]
COU 055 Valuing Diversity [#]	SOC 040 Marriage and Family
HOC 006 Personal Health and Lifestyle	SOC 045 Human Sexuality

AREA F – CULTURE, DIVERSITY AND EQUITY – 0-3 semester/0-4 quarter units (FOR STUDENTS WHO BEGIN FALL 2019 OR LATER)

These courses are designed to provide students with the analytical skills needed to develop critical, reflective and equitable perspectives on similarities and differences within cultures and societies, and to prepare them to function, thrive and provide leadership in today's multicultural and multiethnic world.

Select one course from any of the above areas that is marked with the # sign. Courses in this area will "double-count" to meet other AA/AS GE requirements.

NOTE: Not all AA/AS Area F courses satisfy the [CSU GE-B Area F Ethnic Studies requirement](#).

Please visit www.ASSIST.org for an up-to-date list of all transfer requirements.

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 may also satisfy 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

COM 015 Fundamentals of Oral Communication

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

PHI 003 Introduction to Problems in Ethics*

ENG 001B English Composition II*

POL 020 Controversial Legal Issues

ENG 001C Clear Thinking in Writing*

REA 054 Critical College Reading & Thinking

PHI 002 Introduction to Logic

(*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

CHM 030A Fundamentals of Chemistry (4)

AST 003, 003H Astronomy with Lab (4,4)

CHM 060 Survey of General, Organic, and Biological Chemistry (4)

AST 004 Astrobiology

GEO 001 Introduction to Physical Geography

CHM 001A, 001AH, 001B, 001BH General Chemistry (5,5)

PHY 002A,B General Physics (5,5)

CHM 002 Introductory Chemistry (4)

PHY 004A,B,C Engineering Physics (5,4,4)

CHM 002 Introductory Chemistry

PHY 004D Atomic Physics (2)

CHM 002L, Introductory Chemistry Lab (1)

PHY 010 Introduction to Physics (4)

CHM 012A, 012AH, 012B, 012BH Organic Chemistry I (5,5)

B2. Biological Sciences

ANT 001 Biological Anthropology

BIO 016 Marine Biology (4)

ANT 001L Biological Anthropology Lab (1)

BIO 017, 017H Genetics and Society

BIO 001A, 001AH General Biology: Cells (5ea)

BIO 018, 018H The Biology of Cancer

BIO 001B General Biology: Organisms (5)

BIO 019 Oceans: Life in the Sea

BIO 004 Microbiology (5)

BIO 022 Anatomy & Physiology for Allied Health Workers (4)

BIO 010 Introduction to Biology (4)

BIO 025 Environmental Biology

BIO 010 Introduction to Biology

BIO 030 Tropical Ecology

BIO 010L Introduction to Biology Lab (1)

BIO 030L Tropical Ecology Field Studies (1)

BIO 011 Human Biology (4)

BIO 032 California Plants and Animals (4)

BIO 012 Emerging Infectious Disease

BIO 047 Human Anatomy (5)

BIO 014, 014H Introductory Neuroscience

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 009 Integrated Statistics II (5)
MAT 001 College Algebra (4)	MAT 010, 010H Elementary Statistics (4)
MAT 001X College Algebra with Additional Support (6)	MAT 010X Elementary Statistics with Additional Support (6)
MAT 002 Pre-Calculus and Trigonometry (6)	MAT 012 Calculus for Business (4)
MAT 003A,003AH, 003B Analytic Geometry and Calculus (5,5)	MAT 019 Discrete Mathematics (4)
MAT 004A Intermediate Calculus (5)	SOC 016 Introduction to Statistics in Social and Behavioral Sciences
MAT 004B Differential Equations (4)	

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

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

AREA D – SOCIAL SCIENCES (6 SEMESTER/8 QUARTER UNITS)

Complete two (2) courses. **Biology AS-T majors can defer 1 course until after transfer.**

ANT 002 Introduction to Archaeology	HUM 024 The Asian American Experience
ANT 003 Cultural Anthropology	KIN 081 Sport in Society
ANT 055 Magic, Witchcraft and Religion	POL 001, 001H American Government
BUS 061 Business and Society	POL 002 Comparative Government
CHD 001 Child Growth and Development	POL 004 International Relations
CHD 002 Child, Family and Community (FA11)	POL 005 Political Science Research Methodology
CHD 013 Teaching in a Diverse Society (FA15)	POL 006 Politics of Race, Class and Gender
COU 055 Valuing Diversity	POL 007 International Films
ECN 001A Principles of Macroeconomics	POL 020 Controversial Legal Issues
ECN 001B Principles of Microeconomics	PSY 001, 001H General Psychology
ECN 006 The Global Economy	PSY 007 Biological Psychology
ETH 016A Hispanic Roots and Culture	PSY 010 Social Psychology
ETH 018, 018H African American Culture & Humanities	PSY 012 Human Growth and Development
ETH 024 The Asian American Experience	PSY 015, 015H Introduction to Research Methods
ETH 044, 044H African American History	PSY 025 Introduction to Abnormal Psychology
GEO 002 Introduction to Cultural Geography	PSY 030 Psychology of Addiction and Substance Abuse
GEO 006 World Regional Geography	PSY 045 Human Sexuality (Also SOC 045)
HIS 004A, 004AH, 004B, 004BH History of Western Civilization	SJS 001 Social Justice
HIS 015, 015H World History to 1500	SJS 002 Introduction to Gender Studies
HIS 016, 016H World History since 1500	SJS 003 Introduction to LGBTQ Studies
HIS 017A, 017AH, 017B, 017BH United States History	SOC 001, 001H Introduction to Sociology
HIS 020 History and Geography of California	SOC 002, 002H Social Problems
HIS 031 History of East Asia	SOC 021 Sociology of Minorities in the U.S.
HIS 033, 33H Women's Issues Past and Present	SOC 040 Marriage and Family
HIS 044, 044H African American History	SOC 045 Human Sexuality (Also PSY 045)
HUM 007 International Films	SOC 047 Sociology of Criminology
HUM 016A Hispanic Roots and Cultures	SOC 050 Introduction to Criminal Law
HUM 018, 018H African American Culture & Humanities (FA14)	SOC 060 Community and Justice System (FA15)

AREA E – LIFELONG LEARNING AND SELF-DEVELOPMENT (3 SEMESTER/4-5 QUARTER UNITS)

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

BIO 025 Environmental Biology	HOC 006 Personal Health and Lifestyle
CHD 002 Child, Family and Community (FA11)	HOC 008 Community Health Problems
CHD 013 Teaching in a Diverse Society (FA15)	KIN 068 Sport Psychology
CHD 017 Child Health and Safety (FA15)	KIN 078 Introduction to Kinesiology
COM 004 Small Group Communication	KIN 079 Lifetime Fitness
COM 008 Interpersonal Communication	LIB 010, 010H Information Competency (1)
COM 012 Introduction to Intercultural Communication	NTR 015 Human Nutrition
COU 005 Strategies for Success	PSY 012 Human Growth and Development
COU 012 Careers and Lifestyles	PSY 045 Human Sexuality
COU 017 Transfer Success and Life Transitions	SOC 045 Human Sexuality
COU 055 Valuing Diversity (FA15)	Verified DD214

PHYSICAL EDUCATION:

1. One (1) unit of KIN activity courses (also WHP/PE) can be applied toward Area E. See www.assist.org for complete listing of approved courses.
2. Two (2) units of KIN activity courses (also WHP/PE) satisfy a graduation requirement for some majors at [SJSU](http://www.sjsu.edu) and [CSUEB](http://www.csueb.edu).

AREA F – ETHNIC STUDIES (3 SEMESTER/4 QUARTER UNITS) *FOR STUDENTS WHO BEGIN FALL 2021 OR LATER*****

ENG 013 Chicana/o-Latina/o Literature	HIS 044, 044H African American History
ETH 013 Chicana/o-Latina/o Literature	ETH 044, 044H African American History

CSU GRADUATION REQUIREMENT – American History & Institutions (US1/US2/US3)

It is **strongly recommended** that students complete the following courses prior to transfer (courses in Areas C or D can be used to meet this requirement):

POL 001, 001H American Government	AND	HIS 017A, 017AH or HIS 017B, 017BH United States History
		HIS 044, 044H or ETH 044, 044H African American History

Requirements are subject to change after catalog publication.

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.

MISSION COLLEGE

**INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM FOR CSU
CERTIFICATION AND CERTIFICATE OF ACHIEVEMENT REQUIREMENTS**

The Intersegmental General Education Transfer Curriculum for CSU (IGETC CSU) is a general education program which allows California Community College students to fulfill lower-division general education (GE) requirements for the CSU system without the need, after transfer, to take additional lower-division GE requirements. **SIXTY (60) UC TRANSFERABLE UNITS** of Major and GE courses with a grade of “C” (or P) 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** (completion of all but 2 courses), and **IGETC CSU FOR STEM CERTIFICATION** (for BIO AS-T only) are available. Please see Page 3 for certification details. All courses are 3 units unless otherwise noted. Completion of the pattern also satisfies requirements for Certificate of Achievement in Transfer Studies – IGETC CSU.

AREA 1 - ENGLISH COMMUNICATION (3 courses, 9 semester/15 quarter units)

Complete one course from each group.

GROUP A: ENGLISH COMPOSITION

- ENG 001A English Composition I
- *ENG 001AX Intensive English Composition (5)
- *UC credit limited to 3 units.

GROUP B: CRITICAL THINKING

- ENG 001B English Composition II (SP07)
- ENG 001C Clear Thinking in Writing
- PHI 003 Introduction to Problems in Ethics

GROUP C: ORAL COMMUNICATION

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

AREA 2 - MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING (1 course, 3 semester/4-5 quarter units)

- MAT 000G Math for Liberal Arts Students (4)
- *MAT 001 College Algebra (4)
- *MAT 001X College Algebra with Additional Support (6, 4 for UC transfer)
- *MAT 002 Pre-Calculus and Trigonometry (6, 5 for UC transfer)
- *MAT 003A, 003AH, 003B Analytic Geometry and Calculus (5)
- MAT 004A Intermediate Calculus (4)
- MAT 004B Differential Equations (4)
- MAT 004C Linear Algebra (4)
- *MAT 009 Integrated Statistics II (4)
- *MAT 010, 010H Elementary Statistics (4)
- *MAT 010X Elementary Statistics with Additional Support (6)
- *MAT 012 Calculus for Business (4)
- MAT 019 Discrete Mathematics (4)
- *SOC 016 Introduction to Statistics Social and Behavioral Sciences
- *UC Transfer credit is limited for most MATH courses. See www.assist.org

AREA 3 - ARTS AND HUMANITIES (3 courses, 9 semester/12-15 quarter units)

One course must be selected from Arts, and one from Humanities. Biology AS-T majors can defer the third course until after transfer.

GROUP 3A: ARTS

- ART 001A Survey of Western Art I
- ART 001B Survey of Western Art II
- ART 001D Survey of Modern Art
- ART 004 Art Appreciation
- ART 007 Survey of Asian Art
- ART 011 The History of Modern Design
- GDS 011 The History of Modern Design

- GDS 012 History of Photography (FA14)
- GDS 015 Photo-media and Social Change
- KIN 080 Dance Appreciation
- MUS 005 Fundamentals of Music Theory I
- MUS 010 Music Appreciation
- MUS 016 Survey of Rock and Popular Music
- MUS 017 Musics of the World

GROUP 3B: HUMANITIES

- ARB 002 Second Semester Arabic (5)
- CHI 002 Second Semester Chinese (5)
- COM 012 Intercultural Communication
- ENG 005A, 005B English Literature
- ENG 006B World Literature
- ENG 007A, 007B American Literature
- ENG 012 African American Literature
- ENG 013 Chicana/o-Latina/o Literature
- ENG 015 Introduction to Film Analysis
- ENG 043 Classical Mythology
- ENG 048 Introduction to Shakespeare
- ETH 012 African American Literature
- ETH 013 Chicana/o-Latina/o Literature
- ETH 016A Hispanic Roots and Culture
- ETH 018, 018H African American Culture and Humanities
- ETH 024 The Asian American Experience
- FRN 002, 003, 004 French – Elementary, Intermediate (5ea)
- HIS 004A, 004AH, 004B, 004BH History of Western Civilization
- 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 (FA16)
- HUM 001A, 001B Human Values in and from the Arts
- HUM 007 International Film
- HUM 015 Introduction to Film Analysis
- HUM 016A Hispanic Roots and Culture
- HUM 018 African American Culture & Humanities
- HUM 018H African American Culture & Humanities–Honors (FA17)
- HUM 020 Asian Roots and Culture
- HUM 022 Introduction to Islam
- JPN 002 Second Semester Japanese – Elementary (5)
- LNG 001 Introduction to Language and Linguistics
- PHI 001 Introduction to Philosophy
- PHI 005 Introduction to Social and Political Philosophy
- POL 003 Introduction to Social and Political Philosophy
- POL 007 International Films
- SPA 002, 003, 004 Spanish – Elementary, Intermediate (5ea)
- VIE 002 Second Semester Vietnamese – Elementary (5)
- VIE 049A, 049B Vietnamese Language & Culture for Fluent Speakers

AREA 4 - SOCIAL AND BEHAVIORAL SCIENCES (3 courses, 9 semester/12-15 quarter units)

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

ANT 002 Introduction to Archaeology	POL 001, 001H American Government
ANT 003 Cultural Anthropology	POL 002 Comparative Government
ANT 055 Magic, Witchcraft and Religion	POL 003 Introduction to Social and Political Philosophy
CHD 001 Child Growth and Development (FA17)	POL 004 International Relations
ECN 001A Principles of Macroeconomics (4)	POL 005 Political Science Research Methodology
ECN 001B Principles of Microeconomics (4)	POL 006 Politics of Race, Class and Gender
ECN 006 The Global Economy	POL 020 Controversial Legal Issues
ETH 016A Hispanic Roots and Culture	PSY 001, 001H General Psychology
ETH 018, 018H African American Culture and Humanities	PSY 007 Biological Psychology
ETH 024 The Asian American Experience	PSY 010 Social Psychology
ETH 044, 044H African American History	PSY 012 Human Growth and Development
GEO 002 Introduction to Cultural Geography	PSY 015, 015H Introduction to Research Methods
GEO 006 World Regional Geography	PSY 025 Introduction to Abnormal Psychology
HIS 004A, 004AH, 004B, 004BH History of Western Civilization	PSY 045 Human Sexuality (Also SOC 045)
HIS 015, 015H World History to 1500	SJS 001 Social Justice
HIS 016, 016H World History since 1500	SJS 002 Introduction to Gender Studies
HIS 017A, 017AH, 017B, 017BH United States History	SJS 003 Introduction to LGBTQ Studies
HIS 020 History and Geography of California	SOC 001 001H Introduction to Sociology
HIS 031 History of East Asia	SOC 002 002H Social Problems
HIS 033, 033H Women's Issues Past and Present (FA17)	SOC 021 Sociology of Minorities in the U.S.
HIS 044, 044H African American History	SOC 040 Marriage and Family
HUM 016A Hispanic Roots and Culture	SOC 045 Human Sexuality
HUM 018 (FA14), 018H (FA17) African American Roots and Culture	SOC 047 Sociology of Criminology
KIN 081 Sport in Society	SOC 050 Introduction to Criminal Justice
PHI 005 Introduction to Social and Political Philosophy	SOC 060 Community and Justice System (FA15)

AREA 5 - PHYSICAL AND BIOLOGICAL SCIENCES (2 courses, 7-9 semester/9-12 quarter units)

Complete one course from the Biological Sciences and one from the Physical Sciences. One of the two must have a lab (labs are underlined).

GROUP 5A: PHYSICAL SCIENCES

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

*CHM 030A Fundamentals of Chemistry (4)
 GEO 001 Introduction to Physical Geography
 *PHY 002A, 002B General Physics (5ea)
 *PHY 004A Engineering Physics – Mechanics (5)
 *PHY 004B Engineering Physics - Electricity and Magnetism (4)
 *PHY 004C Engineering Physics - Light and Heat (4)
 *PHY 010 Introduction to Physics (4)

GROUP 5B: BIOLOGICAL SCIENCES

ANT 001 Biological Anthropology
 ANT 001L Biological Anthropology Lab
BIO 001A, 001AH General Biology: Cells (5ea)
BIO 001B General Biology: Organisms (5)
BIO 004 Microbiology (5)
 *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 Introduction to Neuroscience
 BIO 015 Human Genetics

BIO 016 Marine Biology (4)
 BIO 017, 017H Genetics and Society
 BIO 018, 018H Biology of Cancer
 BIO 019 Oceans: Life in the Sea
 BIO 025 Environmental Biology
 BIO 030 Tropical Ecology
BIO 030L Tropical Ecology Field Studies (1)
BIO 032 California Plants and Animals (4)
BIO 047 Human Anatomy (5)
BIO 048, 048H Human Physiology (5)

GROUP 5C. LABORATORY REQUIREMENT

One of the selected science courses from above must be a laboratory course. Lab courses are underlined.

CSU GRADUATION REQUIREMENT - U.S. HISTORY, CONSTITUTION AND AMERICAN IDEALS (2 courses)

Depending on the CSU campus, courses used to meet this requirement may be used to satisfy requirements for IGETC CSU.

POL 001, 001H + one of the following: HIS 017A, 017AH or HIS 017B, 017BH or HIS 044, 044H or ETH 044, 044H

For students who are considering UC transfer: AREA 6 – LANGUAGE OTHER THAN ENGLISH

Proficiency equivalent to two years of high school study in the same language with a grade of "C" or better OR completion of one of the following (documentation required):

1. ARB 001, CHI 001, FRN 001, JPN 001, SPA 001, VIE 001, or other first level language course or higher
2. A score of 3 or higher on the Foreign Language AP Exam or 5 or higher on the IB HL Exam
3. Satisfactory score on the SAT II: Subject Test in languages other than English
4. Satisfactory completion of two years of formal schooling at the sixth-grade level or higher in an institution where the language of instruction is not English.
5. Verified competency by a CCC, CSU or UC faculty member. [IGETC LOTE Certification Form](#) required.

*Transfer credit may be limited by either the UC or CSU or both. Visit www.assist.org for specific limitations.

Courses may be taken to satisfy only one Area Requirement

MC Office of Articulation 072022

MISSION COLLEGE

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM FOR UC
CERTIFICATION AND CERTIFICATE OF ACHIEVEMENT REQUIREMENTS

The Intersegmental General Education Transfer Curriculum for UC (IGETC UC) is a general education program which allows California Community College students to fulfill lower-division general education (GE) requirements for the UC system without the need, after transfer, to take additional lower-division GE requirements. **SIXTY (60) UC TRANSFERABLE UNITS** of Major and GE courses with a grade of “C” (or P) 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 (completion of all but 2 courses), and IGETC FOR STEM CERTIFICATION (for BIO AS-T only) are available. Please see Page 3 for certification details. All courses are 3 units unless otherwise noted. Completion of the pattern also satisfies requirements for Certificate of Achievement in Transfer Studies – IGETC UC.

AREA 1 - ENGLISH COMMUNICATION (2 courses, 6 semester/9 quarter units)

Complete one course from both Groups.

GROUP A: ENGLISH COMPOSITION

- ENG 001A English Composition I
- *ENG 001AX Intensive English Composition (5, 3 for UC transfer)

GROUP B: CRITICAL THINKING

- ENG 001B English Composition II (SP07)
- ENG 001C Clear Thinking in Writing
- PHI 003 Introduction to Problems in Ethics

NOTE: Students considering CSU transfer must also complete COM 001 or 020

AREA 2 - MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING (1 course, 3 semester/4-5 quarter units)

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| <ul style="list-style-type: none"> MAT 000G Math for Liberal Arts Students (4) *MAT 001 College Algebra (4) *MAT 001X College Algebra with Additional Support (6, 4 for UC transfer) *MAT 002 Pre-Calculus and Trigonometry (6, 5 for UC transfer) *MAT 003A, 003AH, 003B Analytic Geometry and Calculus (5) MAT 004A Intermediate Calculus (4) MAT 004B Differential Equations (4) MAT 004C Linear Algebra (4) | <ul style="list-style-type: none"> *MAT 009 Integrated Statistics II (4) *MAT 010, 010H Elementary Statistics (4) *MAT 010X Elementary Statistics with Additional Support (6) *MAT 012 Calculus for Business (4) MAT 019 Discrete Mathematics (4) *SOC 016 Introduction to Statistics Social and Behavioral Sciences *UC Transfer credit is limited for most MATH courses. See www.assist.org |
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AREA 3 - ARTS AND HUMANITIES (3 courses, 9 semester/12-15 quarter units)

One course must be selected from Arts, and one from Humanities. Biology AS-T majors can defer the third course until after transfer.

GROUP 3A: ARTS

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| <ul style="list-style-type: none"> ART 001A Survey of Western Art I ART 001B Survey of Western Art II ART 001D Survey of Modern Art ART 004 Art Appreciation ART 007 Survey of Asian Art ART 011 The History of Modern Design GDS 011 The History of Modern Design | <ul style="list-style-type: none"> GDS 012 History of Photography (FA14) GDS 015 Photo-media and Social Change KIN 080 Dance Appreciation MUS 005 Fundamentals of Music Theory I MUS 010 Music Appreciation MUS 016 Survey of Rock and Popular Music MUS 017 Musics of the World |
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GROUP 3B: HUMANITIES

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| <ul style="list-style-type: none"> ARB 002 Second Semester Arabic (5) CHI 002 Second Semester Chinese (5) COM 012 Intercultural Communication ENG 005A, 005B English Literature ENG 006B World Literature ENG 007A, 007B American Literature ENG 012 African American Literature ENG 013 Chicana/o-Latina/o Literature ENG 015 Introduction to Film Analysis ENG 043 Classical Mythology ENG 048 Introduction to Shakespeare ETH 012 African American Literature ETH 013 Chicana/o-Latina/o Literature ETH 016A Hispanic Roots and Culture ETH 018, 018H African American Culture and Humanities ETH 024 The Asian American Experience FRN 002, 003, 004 French – Elementary, Intermediate (5ea) HIS 004A, 004AH, 004B, 004BH History of Western Civilization HIS 015, 015H World History to 1500 (FA15) HIS 016, 016H World History since 1500 (FA15) | <ul style="list-style-type: none"> 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 (FA16) HUM 001A, 001B Human Values in and from the Arts HUM 007 International Film HUM 015 Introduction to Film Analysis HUM 016A Hispanic Roots and Culture HUM 018 African American Culture & Humanities HUM 018H African American Culture & Humanities—Honors (FA17) HUM 020 Asian Roots and Culture HUM 022 Introduction to Islam JPN 002 Second Semester Japanese – Elementary (5) LNG 001 Introduction to Language and Linguistics PHI 001 Introduction to Philosophy PHI 005 Introduction to Social and Political Philosophy POL 003 Introduction to Social and Political Philosophy POL 007 International Films SPA 002, 003, 004 Spanish – Elementary, Intermediate (5ea) VIE 002 Second Semester Vietnamese – Elementary (5) VIE 049A, 049B Vietnamese Language & Culture for Fluent Speakers |
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AREA 4 - SOCIAL AND BEHAVIORAL SCIENCES (3 courses, 9 semester/12-15 quarter units)

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

ANT 002 Introduction to Archaeology	POL 001, 001H American Government
ANT 003 Cultural Anthropology	POL 002 Comparative Government
ANT 055 Magic, Witchcraft and Religion	POL 003 Introduction to Social and Political Philosophy
CHD 001 Child Growth and Development (FA17)	POL 004 International Relations
ECN 001A Principles of Macroeconomics (4)	POL 005 Political Science Research Methodology
ECN 001B Principles of Microeconomics (4)	POL 006 Politics of Race, Class and Gender
ECN 006 The Global Economy	POL 020 Controversial Legal Issues
ETH 016A Hispanic Roots and Culture	PSY 001, 001H General Psychology
ETH 018, 018H African American Culture and Humanities	PSY 007 Biological Psychology
ETH 024 The Asian American Experience	PSY 010 Social Psychology
ETH 044, 044H African American History	PSY 012 Human Growth and Development
GEO 002 Introduction to Cultural Geography	PSY 015, 015H Introduction to Research Methods
GEO 006 World Regional Geography	PSY 025 Introduction to Abnormal Psychology
HIS 004A, 004AH, 004B, 004BH History of Western Civilization	PSY 045 Human Sexuality (Also SOC 045)
HIS 015, 015H World History to 1500	SJS 001 Social Justice
HIS 016, 016H World History since 1500	SJS 002 Introduction to Gender Studies
HIS 017A, 017AH, 017B, 017BH United States History	SJS 003 Introduction to LGBTQ Studies
HIS 020 History and Geography of California	SOC 001 001H Introduction to Sociology
HIS 031 History of East Asia	SOC 002 002H Social Problems
HIS 033, 033H Women's Issues Past and Present (FA17)	SOC 021 Sociology of Minorities in the U.S.
HIS 044, 044H African American History	SOC 040 Marriage and Family
HUM 016A Hispanic Roots and Culture	SOC 045 Human Sexuality
HUM 018 (FA14), 018H (FA17) African American Roots and Culture	SOC 047 Sociology of Criminology
KIN 081 Sport in Society	SOC 050 Introduction to Criminal Justice
PHI 005 Introduction to Social and Political Philosophy	SOC 060 Community and Justice System (FA15)

AREA 5 - PHYSICAL AND BIOLOGICAL SCIENCES (2 courses, 7-9 semester/9-12 quarter units)

Complete one course from the Biological Sciences and one from the Physical Sciences. One of the two must have a lab (labs are underlined).

GROUP 5A: PHYSICAL SCIENCES

AST 001 Astronomy	*CHM 030A <u>Fundamentals of Chemistry</u> (4)
<u>AST 003, 003H Astronomy with Lab</u> (4)	GEO 001 Introduction to Physical Geography
AST 004 Astrobiology	*PHY 002A, 002B <u>General Physics</u> (5ea)
*CHM 001A, 001AH, 001B, 001BH <u>General Chemistry</u> (5ea)	*PHY 004A <u>Engineering Physics – Mechanics</u> (5)
*CHM 002 Introductory Chemistry	*PHY 004B <u>Engineering Physics - Electricity and Magnetism</u> (4)
<u>CHM 002L Introductory Chemistry Lab</u> (1)	*PHY 004C <u>Engineering Physics - Light and Heat</u> (4)
<u>CHM 012A, 012AH, 012B, 012BH Organic Chemistry</u> (5ea)	*PHY 010 <u>Introduction to Physics</u> (4)

GROUP 5B: BIOLOGICAL SCIENCES

ANT 001 Biological Anthropology	<u>BIO 016 Marine Biology</u> (4)
ANT 001L Biological Anthropology Lab	BIO 017, 017H Genetics and Society
<u>BIO 001A, 001AH General Biology: Cells</u> (5ea)	BIO 018, 018H Biology of Cancer
<u>BIO 001B General Biology: Organisms</u> (5)	BIO 019 Oceans: Life in the Sea
<u>BIO 004 Microbiology</u> (5)	BIO 025 Environmental Biology
*BIO 010 Introduction to Biology	BIO 030 Tropical Ecology
<u>BIO 010L Introduction to Biology Lab</u> (1)	<u>BIO 030L Tropical Ecology Field Studies</u> (1)
<u>BIO 011 Human Biology</u> (4)	<u>BIO 032 California Plants and Animals</u> (4)
BIO 012 Emerging Infectious Disease	<u>BIO 047 Human Anatomy</u> (5)
BIO 014, 014H Introduction to Neuroscience	<u>BIO 048, 048H Human Physiology</u> (5)
BIO 015 Human Genetics	

GROUP 5C. LABORATORY REQUIREMENT

One of the selected science courses from above must be a laboratory course. Lab courses are underlined.

AREA 6 – LANGUAGE OTHER THAN ENGLISH (0-5 semester/0-7.5 quarter units) Biology AS-T majors can defer until after transfer

Proficiency equivalent to two years of high school study in the same language with a "C" or better OR completion of one of the following (documentation required):

1. ARB 001, CHI 001, FRN 001, JPN 001, SPA 001, VIE 001, or other first level language course or higher
2. A score of 3 or higher on the Foreign Language AP Exam or 5 or higher on the IB HL Exam
3. Satisfactory score on the SAT II: Subject Test in languages other than English
4. Satisfactory completion of two years of formal schooling at the sixth-grade level or higher in an institution where the language of instruction is not English.
5. Verified competency by a CCC, CSU or UC faculty member. [IGETC LOTE Certification Form](#) required.

*Transfer credit may be limited by either the UC or CSU or both. Visit www.assist.org for specific limitations.

Courses may be taken to satisfy only one Area Requirement

FREQUENTLY ASKED QUESTIONS ABOUT IGETC

IS IGETC RIGHT FOR ME?

Maybe. The IGETC is advisable for students who have not yet decided on a major or a particular campus and who want to keep their options open before making a final decision about transferring to either a UC or CSU campus. IGETC is not advisable for students who choose majors with substantial lower division prerequisites, such as engineering or science. See chart below.

DO I HAVE TO COMPLETE IGETC TO TRANSFER TO A CSU OR UC?

No. The IGETC is not a requirement for transfer to CSU or most UCs, nor is it the only way to fulfill the lower-division, general education requirements. Depending on a student's major, the student may find it better to take courses fulfilling the CSU's General Education requirements or those of the UC campus or college to which the student plans to transfer.

I HAVE COMPLETED COURSES AT OTHER COLLEGES. WILL THEY COUNT TOWARD IGETC?

Yes. Courses that are completed at any **US regionally accredited** college can be used in the IGETC certification. Students should be aware, however, that coursework from other California community colleges will be applied in the IGETC category determined by the **original** college. Courses taken at a foreign institution not accredited by a US regionally accrediting association are **NOT** permitted for certification on the IGETC.

WILL THE COURSES I TAKE AS TRANSFER REQUIREMENTS FOR MY MAJOR BE COUNTED TOWARD IGETC?

Yes. UC will allow requirements completed as preparation for the major to be used in the IGETC whenever they appear, unless otherwise noted on ASSIST.

I HAVE PASSED AN AP OR IB TEST. CAN MY TEST SCORES BE USED TO SATISFY AN IGETC REQUIREMENT?

Yes. AP scores of 3 or higher can be used to satisfy any IGETC subject area except Critical Thinking and Oral Communication. Even though credit for more than one course can be awarded by Mission College for AP scores of 3 or higher, only one course in the subject for which the AP test was taken can be used on the IGETC. And a score of 5, 6 or 7 on Higher Level exams can grant credit for IGETC certification. Please see the Mission College catalog for specific credit information. CLEP, SAT or ACT exams cannot be used.

DO COURSES COMPLETED NEED A MINIMUM GRADE FOR CERTIFICATION?

Yes. Only grades of "C" or better will be accepted and Pass/No Pass courses are acceptable only if the college catalog defines credit as equivalent to a letter grade of "C" or better (as it does at Mission). A "C-" grade valued at less than 2.0 grade points on a 4.0 scale cannot be used for IGETC certification

HOW DO I COMPLETE THE IGETC?

The IGETC can be certified for California community college transfers who have also completed transfer units at a CSU, UC or independent college provided that the student has completed most of the transfer units at one or more California community colleges. Students who initially enroll at a UC campus, then leave and attend a community college, and subsequently return to the same campus are considered "readmits" by the University and cannot use the IGETC. However, students who enroll at a UC campus, then leave and attend a community college, and subsequently return to a different UC campus may be able to use the IGETC, but students need to check with the campus they wish to attend.

WHAT IS IGETC FOR STEM?

IGETC CSU for STEM and IGETC UC for STEM are separate IGETC tracks available for students planning to major in science, technology, engineering, or mathematics which will allow them to defer all of the following until after transfer:

- One course in Area 3
- One course in Area 4
- One course in Area 6 (for UC bound students who have not satisfied it through proficiency)

These deferred lower division courses must be replaced with calculus and/or science courses required by the major *before* transfer. The UC will accept IGETC for STEM only if a student is earning an Associate Degree for Transfer in Biology or Chemistry at a community college that offers IGETC for STEM as an option for those degrees. For Mission College, this applies only to the Biology AS-T.

I AM A UC TRANSFER. DO I NEED TO COMPLETE AREA 1C IF I AM PURSUING AN ASSOCIATE DEGREE FOR TRANSFER (AA-T/AS-T)?

- *Yes.* Although available for all students, the AA-T and AS-Ts are CSU programs and therefore, communication is required. However, if you are a UC-bound student with no plans for CSU transfer, you have the option of waiving Area 1C with the [IGETC Area 1C Waiver Request](#)

WHAT IS PARTIAL CERTIFICATION?

Partial certification is defined as completing all but two (2) courses on the IGETC pattern (Areas 1 and 2 excluded). These two requirements can be met after transfer with an approved IGETC course from a CCC or a course approved by the UC/CSU campus of attendance from a US regionally accredited institution.

WHEN DO I CERTIFY THE IGETC?

[IGETC certification](#) must be requested in the Records Office prior to transfer. **THIS IS NOT AN AUTOMATIC PROCESS!** All necessary documentation (secondary or other college transcripts) must be submitted to the Records Office prior to this request. Valid IGETC courses must appear on Mission's IGETC plan the year in which they are taken. Students who leave the college, breaking continuous enrollment, will be placed under the IGETC plan in effect for the year that they return.

Requirements are subject to change after catalog publication.

Visit the ASSIST website at WWW.ASSIST.ORG for a complete listing of CSU and UC transferable courses as well as updated IGETC and major requirements.