



## General Education

### **Degree**

California State University (CSU) General Education Breadth,  
Certificate of Achievement

Intersegmental General Education Transfer Curriculum (IGETC),  
Certificate of Achievement

Intersegmental General Education Transfer Curriculum (IGETC) for  
STEM, Certificate of Achievement

## California State University (CSU) General Education Breadth Certificate of Achievement

The California State University General Education Breadth Certificate of Achievement is designed for students planning to transfer to a California State University (CSU) campus. Completion of this certificate ensures that the student has met the lower division General Education requirements for all CSU campuses.

### Program Learning Outcomes

Upon successful completion, the student will:

- Demonstrate effective oral and written communication skills.
- Apply new and accepted ideas about the natural universe using testable methodology.
- Explain the values of a culture as expressed through art, literature, language and philosophical viewpoints.
- Evaluate the methods of inquiry and evidence used in the behavioral and social sciences.
- Integrate knowledge and skills related to personal fulfillment to foster continuous self-development.

### To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Agriculture Business Management Certificate of Achievement.

### Total Units: 39-41

#### Required Courses

*AREA A: English Language Communication and Critical Thinking (9 units)*

#### A.1 Oral Communication (3 Units)

Course #	Name	Units
COMM B1	Public Speaking	3.0
COMM B4	Persuasive Communication	3.0
COMM B8	Small Group Communication	3.0

#### A.2 Written Communication (3 units)

Course #	Name	Units
ENGL B1A	Expository Composition	3.0

#### A.3 Critical Thinking (3 units)

Course #	Name	Units
ENGL B1B	Introduction to Types of Literature	3.0
ENGL B2	Advanced Composition and Critical Thinking	4.0
ENGL B3	Argumentative Writing and Critical Thinking Through Literature	4.0
PHIL B7	Introduction to Logic	3.0
PHIL B9	Critical Thinking and Advanced Composition	3.0
COMM B5	Rhetoric and Argumentation	3.0

*AREA B: Scientific Inquiry and Quantitative Reasoning (9 units)*

At least one course each in Areas B.1., B.2. B.4. One laboratory activity is required. Area B4 course must be completed with a grade of C or better.

#### B.1 Physical Sciences (one course)

Course #	Name	Units
ASTR B1	Physics of the Cosmos	3.0
ASTR B2	Life in the Universe	3.0
ASTR B3	Solar System	3.0
CHEM B1A*	General Chemistry I	5.0
CHEM B2A*	Introductory General Chemistry	4.0
CHEM B11*	Introduction to General, Organic, and Biochemistry	5.0
CHEM B18*	Elementary Organic Chemistry	5.0
CHEM B30A	Organic Chemistry for Science Majors, I	5.0
CHEM B30B	Organic Chemistry for Science Majors, II	5.0
ERSC B10	Introduction to Earth Science	3.0
GEOG B1	Physical Elements of Geography	3.0
GEOG B3	Introduction to Weather and Climate	3.0
GEOL B10	Introduction to Geology	3.0
GEOL B11	Historical Geology	3.0
PHSC B12*	Physical Science	4.0
PHYS B2A*	General Physics-Mechanics and Heat	4.0
PHYS B4A*	Mechanics and Wave Motion	4.0

**California State University (CSU) General Education Breadth****Certificate of Achievement***(continued)**B.2 Life Sciences (One Course)*

Course #	Name	Units	Course #	Name	Units
ANTH B1	Physical Anthropology	3.0	MUSC B21B	History of Music	3.0
BIOL B3A*	General Biology I	5.0	MUSC B22	Music Appreciation	3.0
BIOL B3B*	General Biology II	5.0	MUSC B23	Appreciation of Jazz	3.0
BIOL B11*	Concepts of Biology	4.0	MUSC B24	A Survey of World Music	3.0
BIOL B16*	General Microbiology	5.0	MUSC B27	History of Rock and Roll	3.0
BIOL B18*	Essentials of Human Anatomy and Physiology	4.0	THEA B1	Introduction to Acting	3.0
			THEA B2A	Elements of Acting	3.0
BIOL B32*	Human Anatomy and Physiology I	4.0	THEA B2B	Elements of Acting	3.0
BIOL B33*	Human Anatomy and Physiology II	4.0	THEA B12A	Introduction to Shakespeare	3.0
CRPS B5*	Plant Science	3.0	THEA B20	Introduction to Theatre	3.0
PSYC B1B	Biological Psychology	3.0	THEA B31	Introduction to Film Studies	3.0
			THEA B32	Contemporary Film Studies	3.0

*B.3. Laboratory Activity (One Course)*

Course #	Name	Units
ERSC B10L	Earth Science Lab	1.0
GEOG B1L	Physical Geography Lab	1.0
GEOL B10L	Introduction to Geology Lab	1.0
GEOL B11L	Historical Geology Lab	1.0
	one from Area B.1. or Area B.2 identified with an asterisk*	1.0

*B.4. Mathematics/Quantitative Reasoning (One course)*

Course #	Name	Units
MATH B1A	Precalculus I	4.0
MATH B1B	Precalculus II	4.0
MATH B2	Basic Functions and Calculus for Business	4.0
MATH B4A	Mathematics for Elementary School Teaching	4.0
MATH B6A	Analytic Geometry/Calculus I	4.0
MATH B6B	Analytic Geometry/Calculus II	4.0
MATH B6C	Calculus III	4.0
MATH B6D	Ordinary Differential Equations	3.0
MATH B6E	Elementary Linear Algebra	3.0
MATH B22	Elementary Probability and Statistics	4.0
MATH B23	Finite Mathematics	3.0
PSYC B5	Elementary Statistics for the Behavioral and Social Sciences	4.0

*AREA C: Arts, Literature, Philosophy, and Foreign Language (9 units)*

At least one course each from Area C.1. &amp; C.2.

*C.1. Arts (at least one course)*

Course #	Name	Units
ART B1	Art Appreciation	3.0
ART B2	Drawing I	3.0
ART B4	Two-Dimensional Design	3.0
ART B13	Sculpture I	3.0
ART B35	Survey of Western Art I	3.0
ART B36	Survey of Western Art II	3.0
ART B37	Survey of Art - Latin America	3.0
MUSC B2	Basic Elements of Music	3.0
MUSC B4A	Elementary Theory	3.0
MUSC B4B	Elementary Theory	3.0
MUSC B21A	History of Music	3.0

*C.2. Humanities (at least one course)*

Course #	Name	Units
ASL B1	American Sign Language 1	4.0
ASL B2	American Sign Language 2	4.0
ASL B3	American Sign Language 3	4.0
ENGL B1B	Introduction to Types of Literature	3.0
ENGL B5A	Survey of English Literature	3.0
ENGL B5B	Survey of English Literature	3.0
ENGL B10	Introduction to Shakespeare	3.0
ENGL B20A	Survey of World Literature	3.0
ENGL B21	African-American Literature	3.0
ENGL B24	Latino/a Literature	3.0
ENGL B27	The Bible as Literature	3.0
ENGL B28	Classical Mythology	3.0
ENGL B30A	Survey of American Literature	3.0
ENGL B30B	Survey of American Literature	3.0
ENGL B33	Children's Literature	3.0
HIST B1	World History from the Origins of Civilizations to 1600	3.0
HIST B2	History of the World (Since 1650)	3.0
HIST B4A	European Civilization	3.0
HIST B4B	European Civilization	3.0
HIST B15	Civilizations of the Middle East	3.0
HIST B18	History of the United States Since	3.0
HIST B33	Latin American History	3.0
JAPN B1	Elementary Japanese I	4.0
JAPN B2	Elementary Japanese II	4.0
PHIL B6A	Introduction to Philosophy	3.0
PHIL B9	Critical Thinking and Advanced Composition	3.0
PHIL B10	Introduction to Ethics	3.0
PHIL B12	Ethics of Living and Dying	3.0
PHIL B18	History of Ancient Philosophy	3.0
PHIL B37	Introduction to World Religions	3.0
SPAN B1	Elementary Spanish I	4.0
SPAN B2	Elementary Spanish II	4.0
SPAN B3	Intermediate Spanish I	4.0
SPAN B4	Intermediate Spanish II	4.0
SPAN B35	Spanish for Heritage Speakers I	4.0
SPAN B36	Spanish for Heritage Speakers II	4.0

# California State University (CSU) General Education Breadth

## Certificate of Achievement

(continued)

### AREA D: Social Sciences (9 units)

Take three courses in at least two different discipline areas.

#### Anthropology and Archaeology

Course #	Name	Units
ANTH B2	Introduction to Cultural Anthropology	3.0
ANTH B3	Introduction to Archaeology	3.0
ANTH B5	Native Peoples of North America	3.0

#### Economics

Course #	Name	Units
AGBS B2	Agricultural Economics	3.0
ECON B1	Principles of Economics-Micro	3.0
ECON B2	Principles of Economics-Macro	3.0

#### Ethnic Studies

Course #	Name	Units
ANTH B5	Native Peoples of North America	3.0
COMM B6	Intercultural Communication	3.0
HIST B20a	African American History of the United States	3.0
HIST B20b	African American History/U.S.	3.0
HIST B30a	Early Chicano History	3.0
HIST B36	History of Native American Indians	3.0
SOCI B28	Introduction to Gender	3.0
SOCI B36	Sociology of the Chicano	3.0
SOCI B45	Minority Relations	3.0

#### Gender Studies

Course #	Name	Units
HIST B25	Introduction to Women in American History	3.0
SOCI B28	Introduction to Gender	3.0

#### Geography

Course #	Name	Units
GEOG B2	Human Geography	3.0
GEOG B5	World Regional Geography	3.0

#### History

Course #	Name	Units
HIST B1	World History from the Origins of Civilizations to 1600	3.0
HIST B2	History of the World (Since 1650)	3.0
HIST B4A	European Civilization	3.0
HIST B4B	European Civilization	3.0
HIST B15	Civilizations of the Middle East	3.0
HIST B17A	History of the United States	3.0
HIST B17B	History of the United States Since 1870	3.0
HIST B18	History of the United States Since	3.0
HIST B20A	African American History of the United States	3.0
HIST B20B	African American History/U.S.	3.0
HIST B25	Introduction to Women in American History	3.0
HIST B30A	Early Chicano History	3.0
HIST B30B	History of Chicanos in the Southwest	3.0
HIST B33	Latin American History	3.0
HIST B36	History of Native American Indians	3.0

### Interdisciplinary Social and Behavioral Science

Course #	Name	Units
AGRI B1	Agriculture, Environment, and Society	3.0
CHDV B21	Child Growth and Development: Birth through Adolescence	3.0
CHDV B42	Child, Family, and Community	3.0
COMM B6	Intercultural Communication	3.0
COMM B7	Organizational Communication	3.0
PSYC B40	Introduction to Lifespan Psychology	3.0

### Political Science, Government, and Legal Institutions

Course #	Name	Units
ADMJ B40	Law and Democracy	3.0
JRNL B1	Media and Society	3.0
POLS B1	American Government: National, State and Local	3.0
POLS B2	Comparative Government	3.0
POLS B3	International Politics	3.0
POLS B12	Contemporary Issues in California State and Local Government	3.0
POLS B16	Vital Political Problems	3.0

### Psychology

Course #	Name	Units
PSYC B1A	General Psychology	3.0
PSYC B6	Research Methods for the Behavioral and Social Sciences	3.0
PSYC B20	Social Psychology	3.0
PSYC B33	Psychology of Personal and Social Adjustment	3.0
PSYC B40	Introduction to Lifespan Psychology	3.0

### Sociology and Criminology

Course #	Name	Units
ADMJ B40	Law and Democracy	3.0
CRIM B1	Introduction to Criminal Justice	3.0
CRIM B5	Community Relations	3.0
SOCI B1	Introduction to Sociology	3.0
SOCI B2	Problems of Modern Society	3.0
SOCI B20	Social Psychology	3.0
SOCI B28	Introduction to Gender	3.0
SOCI B36	Sociology of the Chicano	3.0
SOCI B45	Minority Relations	3.0

### AREA E: Lifelong Learning and Self-Development

Take three units. A maximum of one unit of credit is allowed for PE.

Course #	Name	Units
CHDV B21	Child Growth and Development: Birth through Adolescence	3.0
CHDV B42	Child, Family, and Community	3.0
COMM B2	Interpersonal Communication	3.0
FORE B2	Natural Resources	3.0
HLED B1	Principles of Health Education	3.0
MEDS B35	Lifespan Development	3.0

# California State University (CSU) General Education Breadth

## Certificate of Achievement

(continued)

Course #	Name	Units	<i>CSU U.S. History, Constitution, and American Ideals Certification</i>		
NUTR B10	Elementary Nutrition	3.0	Recommended - Take six units from one combination:		
PHIL B12	Ethics of Living and Dying	3.0	<i>Combination 1 (6 units)</i>		
PSYC B1A	General Psychology	3.0	Course #	Name	Units
PSYC B30	Human Sexuality	3.0	POLS B1	American Government: National, State and Local	3.0
PSYC B33	Psychology of Personal and Social Adjustment	3.0	<i>AND one of the following</i>		
PSYC B40	Introduction to Lifespan Psychology	3.0	HIST B17A	History of the United States	3.0
SOCI B28	Introduction to Gender	3.0	HIST B17B	History of the United States Since 1870	3.0
STDV B3	Career and Life Planning	3.0	HIST B20A	African American History of the United States	3.0
STDV B6	Tools for College Success	3.0	HIST B20B	African American History/U.S.	3.0
PHED B3ADP	Adaptive Physical Education	1.0	HIST B30A	Early Chicano History	3.0
PHED B6BLB	Coeducational and Individual Activity: Beginning Ballet (DANC B6BLB)	1.0	HIST B30B	History of Chicanos in the Southwest	3.0
PHED B10	Intercollegiate Competition for Men: Football	3.0	HIST B36	History of Native American Indians	3.0
PHED B11	Intercollegiate Competition for Men: Basketball	1.5	OR		
PHED B12	Intercollegiate Competition: Track and Field	3.0	<i>Combination 2 (6 units)</i>		
PHED B13	Intercollegiate Competition Tennis	3.0	Course #	Name	Units
PHED B14	Intercollegiate Competition for Men: Baseball	3.0	HIST B17A	History of the United States	3.0
PHED B16	Intercollegiate Competition for Men: Golf	3.0	<i>AND one of the following</i>		
PHED B17	Intercollegiate Competition Cross Country	3.0	POLS B1	American Government: National, State and Local	3.0
PHED B20	Intercollegiate Competition for Men Wrestling	3.0	POLS B12	Contemporary Issues in California State and Local Government	3.0
PHED B23	Intercollegiate Competition for Women Soccer	3.0	HIST B18	Vital Political Problems	3.0
PHED B24	Intercollegiate Competition for Women: Golf	3.0			
PHED B25	PHED B25 Intercollegiate Competition for Women Volleyball	3.0			
PHED B28	Intercollegiate Competition for Women: Basketball	3.0			
PHED B29	Intercollegiate Competition for Women Softball	3.0			
PHED B32	Shape Up	3.0			
PHED B33	Intercollegiate Swimming	3.0			



# Intersegmental General Education Transfer Curriculum (IGETC)

## Certificate of Achievement

The Intersegmental General Education Transfer Curriculum (IGETC) Certificate of Achievement is designed for students planning to transfer to a University of California (UC) campus. Completion of this certificate ensures that the student has met the lower division general education requirements for most UC campuses.

### Program Learning Outcomes:

Upon completion, the student will:

- Demonstrate effective oral and written communication skills.
- Apply mathematical concepts and quantitative reasoning.
- Explain the values of a culture as expressed through art, literature, language and philosophical viewpoints.
- Evaluate the methods of inquiry and evidence used in the behavioral and social sciences.
- Apply new and accepted ideas about the physical and biological sciences using testable methodology.

### Total Minimum Units: 37

#### Required Courses

#### AREA 1: English Communication

One course from each group. UCs only require Group A and B

#### 1A (3 units, UC required)

Course #	Name	Units
ENGL B1A	Expository Composition	3.0

#### 1B (3 units, UC required)

Course #	Name	Units
ENGL B2	Advanced Composition and Critical Thinking	4.0
ENGL B3	Argumentative Writing and Critical Thinking Through Literature	4.0
PHIL B9	Critical Thinking and Advanced Composition	3.0

#### 1C (3 units)

Course #	Name	Units
COMM B1	Public Speaking	3.0
COMM B4	Interpersonal Communication	3.0
COMM B8	Small Group Communication	3.0

#### AREA 2: Mathematical Concepts and Quantitative Reasoning (3 units)

Course #	Name	Units
MATH B1A	Precalculus I	4.0
MATH B1B	Precalculus II	4.0
MATH B2	Basic Functions and Calculus for Business	4.0
MATH B6A	Analytic Geometry/Calculus I	4.0
MATH B6B	Analytic Geometry/Calculus II	4.0
MATH B6C	Calculus III	4.0
MATH B6D	Ordinary Differential Equations	3.0
MATH B6E	Elementary Linear Algebra	3.0
MATH B22	Elementary Probability and Statistics	4.0
MATH B23	Finite Mathematics	3.0
PSYC B5	Elementary Statistics for the Behavioral and Social Sciences	4.0

### To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Agriculture Business Management Certificate of Achievement.

Students must complete a minimum of 37 units to satisfy the Intersegmental General Education Transfer Curriculum (IGETC) requirements. See the IGETC pattern listed in the Bakersfield College (BC) catalog or consult with a BC counselor.

#### AREA 3: Arts and Humanities (9 units)

At least one course from the Arts and one course from the Humanities

#### 3A Arts

Course #	Name	Units
ART B1	Art Appreciation	3.0
ART B2	Drawing I	3.0
ART B4	Two-Dimensional Design	3.0
ART B35	Survey of Western Art I	3.0
ART B36	Survey of Western Art II	3.0
ART B37	Survey of Art – Latin America	3.0
MUSC B2	Basic Elements of Music	3.0
MUSC B4A	Elementary Theory	3.0
MUSC B4B	Elementary Theory	3.0
MUSC B21A	History of Music	3.0
MUSC B21B	History of Music	3.0
MUSC B22	Music Appreciation	3.0
MUSC B23	Appreciation of Jazz	3.0
MUSC B27	History of Rock and Roll	3.0
THEA B12A	Introduction to Shakespeare	3.0
THEA B20	Introduction to Theatre	3.0
THEA B31	Introduction to Film Studies	3.0
THEA B32	Contemporary Film Studies	3.0

**Intersegmental General Education Transfer Curriculum (IGETC)****Certificate of Achievement***(continued)***3B Humanities**

Course #	Name	Units
ASL B2	American Sign Language 2	4.0
ASL B3	American Sign Language 3	4.0
ENGL B1B	Introduction to Types of Literature	3.0
ENGL B5A	Survey of English Literature	3.0
ENGL B5B	Survey of English Literature	3.0
ENGL B10	Introduction to Shakespeare	3.0
ENGL B20A	Survey of World Literature	3.0
ENGL B21	African-American Literature	3.0
ENGL B24	Latino/a Literature	3.0
ENGL B27	The Bible as Literature	3.0
ENGL B28	Classical Mythology	3.0
ENGL B30A	Survey of American Literature	3.0
ENGL B30B	Survey of American Literature	3.0
ENGL B33	Children's Literature	3.0
HIST B1	World History from the Origins of Civilizations to 1600	3.0
HIST B2	History of the World (Since 1650)	3.0
HIST B4A	European Civilization	3.0
HIST B4B	European Civilization	3.0
HIST B15	Civilizations of the Middle East	3.0
HIST B17A	History of the United States	3.0
HIST B17B	History of the United States Since 1870	3.0
HIST B18	History of California	3.0
HIST B20A	African American History of the United States	3.0
HIST B20B	African American History/U.S.	3.0
HIST B25	Introduction to Women in American History	3.0
HIST B30A	Early Chicano History	3.0
HIST B30B	History of Chicanos in the Southwest	3.0
HIST B33	Latin American History	3.0
HIST B36	History of Native American Indians	3.0
JAPN B2	Elementary Japanese II	4.0
MUSC B24	A Survey of World Music	3.0
PHIL B6A	Introduction to Philosophy	3.0
PHIL B10	Introduction to Ethics	3.0
PHIL B18	History of Ancient Philosophy	3.0
PHIL B37	Introduction to World Religions	3.0
SPAN B3	Intermediate Spanish I	4.0
SPAN B4	Intermediate Spanish I	4.0

**AREA 4: Social and Behavioral Sciences (9 units)**

Take three courses from at least two disciplines.		
Course #	Name	Units
ADMJ B40	Law and Democracy	3.0
ANTH B2	Introduction to Cultural Anthropology	3.0
ANTH B3	Introduction to Archaeology	3.0
ANTH B5	Native Peoples of North America	3.0
CHDV B21	Child Growth and Development: Birth through Adolescence	3.0
COMM B6	Intercultural Communication	3.0
ECON B1	Principles of Economics-Micro	3.0
ECON B2	Principles of Economics-Macro	3.0
GEOG B2	Human Geography	3.0
GEOG B5	World Regional Geography	3.0
HIST B1	World History from the Origins of Civilizations to 1600	3.0
HIST B2	History of the World (Since 1650)	3.0
HIST B4A	European Civilization	3.0
HIST B4B	European Civilization	3.0
HIST B15	Civilizations of the Middle East	3.0
HIST B17A	History of the United States	3.0
HIST B17B	History of the United States Since 1870	3.0
HIST B18	History of California	3.0
HIST B20A	African American History of the United States	3.0
HIST B20B	African American History/U.S.	3.0
HIST B25	Introduction to Women in American History	3.0
HIST B30A	Early Chicano History	3.0
HIST B30B	History of Chicanos in the Southwest	3.0
HIST B33	Latin American History	3.0
HIST B36	History of Native American Indians	3.0
JRNL B1	Media and Society	3.0
POLS B1	American Government: National, State and Local	3.0
POLS B2	Comparative Government	3.0
POLS B3	International Politics	3.0
POLS B16	Vital Political Problems	3.0
PSYC B1A	General Psychology	3.0
PSYC B6	Research Methods for the Behavioral and Social Sciences	4.0
PSYC B20	Social Psychology	3.0
PSYC B33	Psychology of Personal and Social Adjustment	3.0
PSYC B40	Introduction to Lifespan Psychology	3.0
SOCI B1	Introduction to Sociology	3.0
SOCI B2	Problems of Modern Society	3.0
SOCI B20	Social Psychology	3.0
SOCI B28	Introduction to Gender	3.0
SOCI B36	Sociology of the Chicano	3.0
SOCI B45	Minority Relations	3.0

## Intersegmental General Education Transfer Curriculum (IGETC) Certificate of Achievement

### *AREA 5: Physical and Biological Sciences (7-9 units)*

At least one Physical Science and one Life Science. One laboratory activity is required.

#### *5A Physical Science*

Course #	Name	Units
ASTR B1	Physics of the Cosmos	3.0
ASTR B2	Life in the Universe	3.0
ASTR B3	Solar System	3.0
CHEM B1A*	General Chemistry I	5.0
CHEM B2A*	General Chemistry and Chemical Analysis	5.0
CHEM B11*	Introduction to General, Organic, and Biochemistry	5.0
CHEM B18*	Elementary Organic Chemistry	5.0
ERSC B10	Introduction to Earth Science	3.0
GEOG B1	Physical Elements of Geography	3.0
GEOG B3	Introduction to Weather and Climate	3.0
GEOL B10	Introduction to Geology	3.0
GEOL B11	Historical Geology	3.0
PHYS B2A*	General Physics-Mechanics and Heat	4.0
PHYS B4A*	Mechanics and Wave Motion	4.0

#### *5B Life Science*

Course #	Name	Units
ANTH B1	Physical Anthropology	3.0
BIOL B3A*	General Biology I	5.0
BIOL B3B*	General Biology II	5.0
BIOL B11*	Concepts of Biology	4.0
BIOL B16*	General Microbiology	5.0
BIOL B32*	Human Anatomy and Physiology I	4.0
BIOL B33*	Human Anatomy and Physiology II	4.0
CRPS B5*	Plant Science	3.0
PSYC B1B	Biological Psychology	3.0

#### *5C Laboratory*

Course #	Name	Units
ERSC B10L	Introduction to Earth Science Lab	1.0
GEOG B1L	Physical Elements of Geography Lab	1.0
GEOL B10L	Introduction to Geology Lab	1.0
GEOL B11L	Historical Geology Lab	1.0

or one lab course from Group 5A or 5B with an asterisk (\*)



# Intersegmental General Education Transfer Curriculum (IGETC) for STEM Certificate of Achievement

The Intersegmental General Education Transfer Curriculum (IGETC) for STEM Certificate of Achievement is designed for students planning to transfer to a University of California (UC) campus. Completion of this certificate ensures that the student has met the lower division general education requirements for most UC campuses.

### Program Learning Outcomes:

Upon completion, the student will:

- Demonstrate effective oral and written communication skills.
- Apply mathematical concepts and quantitative reasoning.
- Explain the values of a culture as expressed through art, literature, language and philosophical viewpoints.
- Evaluate the methods of inquiry and evidence used in the behavioral and social sciences.
- Apply new and accepted ideas about the physical and biological sciences using testable methodology.

### Total Minimum Units: 31

#### Required Courses

#### AREA 1: English Communication

One course from each group. UCs only require Group A and B 1A (3 units, UC required)

Course #	Name	Units
ENGL B1A	Expository Composition	3.0

#### 1B (3 units, UC required)

Course #	Name	Units
ENGL B2	Advanced Composition and Critical Thinking	4.0
ENGL B3	Argumentative Writing and Critical Thinking Through Literature	4.0
PHIL B9	Critical Thinking and Advanced Composition	3.0

#### 1C (3 units)

Course #	Name	Units
COMM B1	Public Speaking	3.0
COMM B4	Interpersonal Communication	3.0
COMM B8	Small Group Communication	3.0

#### AREA 2: Mathematical Concepts and Quantitative Reasoning (3 units)

Course #	Name	Units
MATH B1A	Precalculus I	4.0
MATH B1B	Precalculus II	4.0
MATH B2	Basic Functions and Calculus for Business	4.0
MATH B6A	Analytic Geometry/Calculus I	4.0
MATH B6B	Analytic Geometry/Calculus II	4.0
MATH B6C	Calculus III	4.0
MATH B6D	Ordinary Differential Equations	3.0
MATH B6E	Elementary Linear Algebra	3.0
MATH B22	Elementary Probability and Statistics	4.0
MATH B23	Finite Mathematics	3.0
PSYC B5	Elementary Statistics for the Behavioral and Social Sciences	4.0

### To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Agriculture Business Management Certificate of Achievement.

Students must complete a minimum of 31 units to satisfy the Intersegmental General Education Transfer Curriculum (UC) for STEM requirements. See the IGETC for STEM requirements in the Bakersfield College (BC) catalog or consult with a BC counselor.

#### AREA 3: Arts and Humanities (6 units)

At least one course from the Arts and one course from the Humanities

#### 3A Arts (3 units)

Course #	Name	Units
ART B1	Art Appreciation	3.0
ART B2	Drawing I	3.0
ART B4	Two-Dimensional Design	3.0
ART B35	Survey of Western Art I	3.0
ART B36	Survey of Western Art II	3.0
ART B37	Survey of Art – Latin America	3.0
MUSC B2	Basic Elements of Music	3.0
MUSC B4A	Elementary Theory	3.0
MUSC B4B	Elementary Theory	3.0
MUSC B21A	History of Music	3.0
MUSC B21B	History of Music	3.0
MUSC B22	Music Appreciation	3.0
MUSC B23	Appreciation of Jazz	3.0
MUSC B27	History of Rock and Roll	3.0
THEA B12A	Introduction to Shakespeare	3.0
THEA B20	Introduction to Theatre	3.0
THEA B31	Introduction to Film Studies	3.0
THEA B32	Contemporary Film Studies	3.0

**Intersegmental General Education Transfer Curriculum (IGETC) for STEM****Certificate of Achievement***(continued)**3B Humanities (3 units)*

Course #	Name	Units
ASL B2	American Sign Language 2	4.0
ASL B3	American Sign Language 3	4.0
ENGL B1B	Introduction to Types of Literature	3.0
ENGL B5A	Survey of English Literature	3.0
ENGL B5B	Survey of English Literature	3.0
ENGL B10	Introduction to Shakespeare	3.0
ENGL B20A	Survey of World Literature	3.0
ENGL B21	African-American Literature	3.0
ENGL B24	Latino/a Literature	3.0
ENGL B27	The Bible as Literature	3.0
ENGL B28	Classical Mythology	3.0
ENGL B30A	Survey of American Literature	3.0
ENGL B30B	Survey of American Literature	3.0
ENGL B33	Children's Literature	3.0
HIST B1	World History from the Origins of Civilizations to 1600	3.0
HIST B2	History of the World (Since 1650)	3.0
HIST B4A	European Civilization	3.0
HIST B4B	European Civilization	3.0
HIST B15	Civilizations of the Middle East	3.0
HIST B17A	History of the United States	3.0
HIST B17B	History of the United States Since 1870	3.0
HIST B18	History of California	3.0
HIST B20A	African American History of the United States	3.0
HIST B20B	African American History/U.S.	3.0
HIST B25	Introduction to Women in American History	3.0
HIST B30A	Early Chicano History	3.0
HIST B30B	History of Chicanos in the Southwest	3.0
HIST B33	Latin American History	3.0
HIST B36	History of Native American Indians	3.0
JAPN B2	Elementary Japanese II	4.0
MUSC B24	A Survey of World Music	3.0
PHIL B6A	Introduction to Philosophy	3.0
PHIL B10	Introduction to Ethics	3.0
PHIL B18	History of Ancient Philosophy	3.0
PHIL B37	Introduction to World Religions	3.0
SPAN B3	Intermediate Spanish I	4.0
SPAN B4	Intermediate Spanish I	4.0

*AREA 4: Social and Behavioral Sciences (6 units)*

Take three courses from at least two disciplines.		
Course #	Name	Units
ADMJ B40	Law and Democracy	3.0
ANTH B2	Introduction to Cultural Anthropology	3.0
ANTH B3	Introduction to Archaeology	3.0
ANTH B5	Native Peoples of North America	3.0
CHDV B21	Child Growth and Development: Birth through Adolescence	3.0
COMM B6	Intercultural Communication	3.0
ECON B1	Principles of Economics-Micro	3.0
ECON B2	Principles of Economics-Macro	3.0
GEOG B2	Human Geography	3.0
GEOG B5	World Regional Geography	3.0
HIST B1	World History from the Origins of Civilizations to 1600	3.0
HIST B2	History of the World (Since 1650)	3.0
HIST B4A	European Civilization	3.0
HIST B4B	European Civilization	3.0
HIST B15	Civilizations of the Middle East	3.0
HIST B17A	History of the United States	3.0
HIST B17B	History of the United States Since 1870	3.0
HIST B18	History of California	3.0
HIST B20A	African American History of the United States	3.0
HIST B20B	African American History/U.S.	3.0
HIST B25	Introduction to Women in American History	3.0
HIST B30A	Early Chicano History	3.0
HIST B30B	History of Chicanos in the Southwest	3.0
HIST B33	Latin American History	3.0
HIST B36	History of Native American Indians	3.0
JRNL B1	Media and Society	3.0
POLS B1	American Government: National, State and Local	3.0
POLS B2	Comparative Government	3.0
POLS B3	International Politics	3.0
POLS B16	Vital Political Problems	3.0
PSYC B1A	General Psychology	3.0
PSYC B6	Research Methods for the Behavioral and Social Sciences	4.0
PSYC B20	Social Psychology	3.0
PSYC B33	Psychology of Personal and Social Adjustment	3.0
PSYC B40	Introduction to Lifespan Psychology	3.0
SOCI B1	Introduction to Sociology	3.0
SOCI B2	Problems of Modern Society	3.0
SOCI B20	Social Psychology	3.0
SOCI B28	Introduction to Gender	3.0
SOCI B36	Sociology of the Chicano	3.0
SOCI B45	Minority Relations	3.0

**Intersegmental General Education Transfer Curriculum (IGETC) for STEM****Certificate of Achievement***(continued)**AREA 5: Physical and Biological Sciences (7-9 units)*

At least one Physical Science and one Life Science. One laboratory activity is required.

*5A Physical Science*

Course #	Name	Units
ASTR B1	Physics of the Cosmos	3.0
ASTR B2	Life in the Universe	3.0
ASTR B3	Solar System	3.0
CHEM B1A*	General Chemistry I	5.0
CHEM B2A*	General Chemistry and Chemical Analysis	5.0
CHEM B11*	Introduction to General, Organic, and Biochemistry	5.0
CHEM B18*	Elementary Organic Chemistry	5.0
ERSC B10	Introduction to Earth Science	3.0
GEOG B1	Physical Elements of Geography	3.0
GEOG B3	Introduction to Weather and Climate	3.0
GEOL B10	Introduction to Geology	3.0
GEOL B11	Historical Geology	3.0
PHYS B2A*	General Physics-Mechanics and Heat	4.0
PHYS B4A*	Mechanics and Wave Motion	4.0

*5B Life Science*

Course #	Name	Units
ANTH B1	Physical Anthropology	3.0
BIOL B3A*	General Biology I	5.0
BIOL B3b*	General Biology II	5.0
BIOL B11*	Concepts of Biology	4.0
BIOL B16*	General Microbiology	5.0
BIOL B32*	Human Anatomy and Physiology I	4.0
BIOL B33*	Human Anatomy and Physiology II	4.0
CRPS B5*	Plant Science	3.0
PSYC B1B	Biological Psychology	3.0

*5C Laboratory*

Course #	Name	Units
ERSC B10L	Introduction to Earth Science Lab	1.0
GEOG B1L	Physical Elements of Geography Lab	1.0
GEOL B10L	Introduction to Geology Lab	1.0
GEOL B11L	Historical Geology Lab	1.0

or one lab course from Group 5A or 5B with an asterisk (\*)