



CUYAMACA COLLEGE

2021-2022 CATALOG ADDENDUM

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· C O L L E G E ·

Addendum to the 2021-2022 Catalog

Additions, Modifications and Corrections occurring after publication of the Catalog (July 21, 2021). Unless otherwise noted, all Additions, Modifications and Corrections are effective Fall 2021.

NOVEMBER 18, 2021

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Comments

Revised Administrators^

CUYAMACA COLLEGE ADMINISTRATION

Julianna Barnes, Ed.D.	President
Nicole Salgado	Interim Vice President, Administrative Services
Alicia Muñoz	Interim Vice President, Instruction
Jessica Robinson, Ed.D.	Vice President, Student Services
Brianna Hays	Senior Dean, Institutional Effectiveness, Success & Equity
Christianne Penunuri	Director, College & Community Relations
Lauren Halsted, Ed.D.	Interim Dean, Arts, Humanities & Social Sciences (Art, American Sign Language, Communication, English, English as a Second Language, Ethnic Studies, History, Social and Behavioral Sciences, Humanities, Philosophy and Religious Studies, Performing Arts, World Languages)
Cuauhtémoc Carboni, Ph.D.	Dean, Athletics, Kinesiology & Health Education (Kinesiology/Fitness Center, Health Education)
Larry McLemore	Dean, Career Education (Automotive Technology, Business and Professional Studies, Center for Water Studies, Child Development, CADD Technology & Surveying, CIS & Graphic Design, Environmental Health & Safety Management, Ornamental Horticulture)
Nicole Jones	Dean, Counseling Services
Jodi Reed	Interim Dean, Learning & Technology Resources
Kim Dudzik	Interim Dean, Math, Science & Engineering (Mathematical Sciences, Science/Engineering)
Lauren Vaknin, Ed.D.	Dean, Student Affairs
Jesús Miranda	Dean, Student Equity & Engagement
Agustín Orozco	Associate Dean, Student Services and Special Programs
Gregory Vega	Director, Admissions & Records
Francisco Gonzalez	Director, Campus Facilities, Operations & Maintenance
Ray Reyes	Director, Financial Aid
John Escobedo, Ph.D.	Director, Title V Activities
Michael Gilchrist	Manager, Campus Bookstore

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT ADMINISTRATION

Lynn Ceresino Neault, Ed.D.	Chancellor
Sahar Abushaban	Vice Chancellor, Business Services
Aimee Gallagher, J.D.	Interim Vice Chancellor, Human Resources
Todd McDonald	Associate Vice Chancellor, Business Services
Craig Leedham, Ph.D.	Associate Vice Chancellor, Human Resources
Kerry Kilber Rebman	Interim Associate Vice Chancellor, Technology
Nahid Razi	Sr. Director, Purchasing, Contracts & Ancillary Services
Ken Emmons	Sr. Director, Districtwide Facilities
Jennifer Fujimoto	Sr. Director, Fiscal Services
Michele Clock	Director, Public Information, Government Relations and Community Relations
Nicole Conklin	Director, Public Safety
Cynthia K. Nagura	Director, Community & Workforce Partnerships
Jerry Williamson	Director, Computer Services
TBA	Director, Enterprise Systems
Anaid Northcraft	Interim Director, Human Resources
Kristine Ogden	Director, Payroll
Steve Abat	Director, Technical Services
Sally Cox	Chief Executive Officer, Foundation for Grossmont & Cuyamaca Colleges
Dana Rivers	Director of Development, Foundation for Grossmont & Cuyamaca Colleges
Gabriela Alvarez	Administrative Director to the Chancellor and Governing Board Operations

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Additional Ethnic Studies courses added to Area C2, and Area D. HIST 148 removed from Area D. Area D, comment updated to: courses may be taken in the same discipline.

The * was removed from the statement: Courses may differ between Cuyamaca and Grossmont Colleges.

Added the statement: Courses with an * meet CSU American Institutions requirement.#

PLAN C:

CALIFORNIA STATE UNIVERSITY (CSU) GENERAL EDUCATION BREADTH 2021-2022

Attention students: CSU GE Breadth choices for transfer may differ between Cuyamaca and Grossmont. If you plan to attend both colleges, it is strongly recommended that you visit the Counseling Centers or visit the individual college websites at www.gcccd.edu for specific information.

Up-to-date at time of catalog printing. Please see a counselor for any additional changes.

There is no catalog year or rule of continuing attendance for General Education Breadth Requirements certification. A course is certifiable if, and only if, it was on the General Education Breadth Requirements list at the time the course was taken. Please check with a counselor if you have any questions.

The California State University system has established a requirement of 48 semester units in general education as part of a baccalaureate degree. At least nine of the 48 semester units must be upper division courses. A student attending a community college may complete 39 of the 48 semester units prior to transfer.

The 48 semester units are distributed as follows:

1. A minimum of nine (9) semester units in communication in the English language to include both oral communication and written communication, and in critical thinking to include consideration of common fallacies in reasoning.
2. A minimum of twelve (12) semester units to include inquiry into the physical universe and its life forms with some immediate participation in laboratory activity, and into mathematical concepts and quantitative reasoning and their applications.
3. A minimum of twelve (12) semester units among the arts, literature, philosophy and foreign languages.
4. A minimum of twelve (12) semester units dealing with human social, political and economic institutions and behavior and their historical background.
5. A minimum of three (3) semester units in study designed to equip human beings for lifelong understanding and development of themselves as integrated physiological and psychological entities.

Cuyamaca College students will be "certified" as completing up to 39 lower division semester

units of general education at Cuyamaca College for California State University campuses upon completion of the requirements for Areas A through E listed below (courses which are listed

in more than one category may be used to certify only one requirement). Courses completed at California Community Colleges and participating institutions will be certified based on approval at the original campus. Courses taken at out-of-state or private colleges and universities may be used in the certification under certain conditions. CSU GE certifications are processed in the Admissions and Records Office.

NOTE: General Education course choices for transfer and the Associate degree may differ between Cuyamaca College and Grossmont College. Each college strongly recommends that students visit the Counseling Centers for specific information if they plan to attend both campuses.

Courses required in Oral Communication (A1), Written Communication (A2), Critical Thinking (A3) and Mathematics/Quantitative Reasoning (B4) must be completed with grades of "C" or better for admission to most CSU campuses.

AREA A – ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING

(Minimum of 9 semester units)

Minimum of 3 courses, at least one from each category.

1. **Oral Communication:**
COMM 120, 122, 130
2. **Written Communication:**
ENGL 120
3. **Critical Thinking:**
COMM 137, 145
ENGL 122, 124
PHIL 125, 130

AREA B – SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING

(Minimum of 9 semester units)

Minimum of 3 semester units in B1, B2 and B4. One lab course must be included (laboratory courses are underlined>. Lab must correspond to its related lecture course.

1. **Physical Sciences:**
ASTR 110, 112
CHEM 102, 105, 113, 115, 116, 120, 141, 142, 231, 232
ET 110
GEOG 120[†], 121[†]
GEOL 104[†], 105, 110, 111
OCEA 112, 113
PHYC 110, 130, 131, 190, 200, 201, 202, 203, 210
2. **Life Sciences:**
ANTH 130

BIO 112, 122, 130, 131, 133, 134, 135, 140, 141, 141L, 152, 230, 240
OCEA 112, 113

3. **Laboratory Activity:** This requirement is met by completing a lab course in B1 or B2. Lab courses are underlined. Lab must correspond to its related lecture course.

†GEOG 121 corresponds to either GEOG 120 or GEOL 104.

4. **Mathematics/Quantitative Reasoning:**

BIO 215, PSY 215

CS 240

MATH 120, 125, 126, 160, 170, 175, 176, 178, 180, 245, 280, 281, 284, 285

AREA C – ARTS AND HUMANITIES

(Minimum of 9 semester units)

At least 1 course in each category.

1. **Arts:**

ART 100, 120, 140, 141, 143, 144, 145, 146, 148, 149

HUM 110, 120, 140

MUS 110, 111, 115, 116, 117, 123

THTR 110

2. **Humanities:**

ARAM 120, 121, 220

ARBC 120, 121, 122, 123, 145, 220, 221, 250, 251, 254

ASL 120, 121, 140, 220, 221

ENGL 122, 201, 202, 214, 217, 221, 222, 231, 232, 236, 238, 270, 271

ETHN 111, 236, 238

HIST 100, 101, 105, 106, 114, 115, 148

HUM 110, 111, 115, 116, 120, 140, 155

NAKY 120, 121, 220

PHIL 110, 115, 117, 140, 160, 170

RELG 120, 130, 160, 170

SPAN 120, 121, 141, 145, 220, 221, 250, 251

AREA D – SOCIAL SCIENCES

(Minimum of 6 semester units)

Courses must be taken from at least 2 disciplinary perspectives.

ANTH 120, 140, 150, 160

CD 115, 125, 131, 145

COMM 110, 124

ECON 110, 120, 121

ETHN 107*, 114, 118*, 119*, 130*, 131* 132, 133, 150, 165, 180*, 181*

GEOG 106, 130

HED 203, 204, 251

HIST 100, 101, 105, 106, 107*, 108*, 109*, 114*, 115*, 118*, 119*, 122*, 123*, 124*, 130*, 131*, 132, 133, 180*, 181*, 275, 276, 277

POSC 120, 121*, 124, 130, 140*, 165, 170

PSY 120, 125, 134, 138, 140, 150, 170, 211, 220

SOC 114, 120, 125, 130, 138, 140, 150

SPAN 145

AREA E – LIFELONG LEARNING AND

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Comments

SOC 138 C-ID added. #

SELF-DEVELOPMENT

Three semester units, not all from physical activity, from:

- BIO 115
- CD 125, 145
- CIS 110
- COUN 120, 140
- ES 019ABC
- HED 120, 201, 203, 251
- NUTR 155, 158, 255
- PSY 134, 140, 150, 220
- SCI 100
- SOC 125

OR

DD 214 and/or military transcripts.

AREA F – ETHNIC STUDIES

One course (Minimum of 3 semester units) is required.

- ENGL 236, 238
- ETHN 114, 236, 238
- SOC 114

US HISTORY, CONSTITUTION AND AMERICAN IDEALS REQUIREMENT:

The California State University requires students to complete courses or examinations that address:

US-1: The historical development of American institutions and ideals; and

US-2: The Constitution of the United States and the operation of representative democratic government under that Constitution; and

US-3: The process of California state and local government.

This requirement may be fulfilled prior to transfer by completing a course or courses that satisfy all three areas (US-1, US-2, and US-3). Please review www.assist.org to see which courses at Cuyamaca College fulfill US-1, US-2 and US-3.* Courses used to satisfy

this requirement may also be applied to IGETC Area 4 and/or CSU GE-Breadth Area D.

Please note: Courses may differ between Cuyamaca and Grossmont Colleges.

Courses with an * meet CSU American Institutions requirement.

C-ID NUMBERS APPROVED:

<i>Cuyamaca Course</i>	<i>C-ID</i>
SOC 138.....	PSY 170

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Comments

The degree was updated to meet the most recent TMC template requirements. The following courses were added PSY 215, SOC 114, SOC 138, and SOC 140. List B was added. ^

BEHAVIORAL & SOCIAL SCIENCES

SOCIOLOGY FOR TRANSFER (AA-T)



Associate Degree for TransferSM

This degree program is designed to provide students with a broad understanding of human interaction, social processes, social structures, and tools of sociological investigation. Students completing this degree may be interested in pursuing careers in teaching, research, social work, and other behavioral science professions.

The following is required for the AA-T in Sociology for Transfer degree:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California State University General Education (CSU GE) Breadth pattern OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information. Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Evaluate society and make appropriate suggestions for improvement directed at social change.
- Analyze and interpret the diversity of social experience using a sociological perspective.
- Engage in critical thinking, analysis and problem solving about social issues.
- Employ theoretical and methodological approaches to sociological observations of everyday life.
- Evaluate the implications of multicultural diversity and global interdependence.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

CORE CURRICULUM:

Course	Title	Units
MATH 160	Elementary Statistics	4
or		
PSY 215	Statistics for the Behavioral Sciences	4
SOC 120	Introductory Sociology	3
SOC 130	Contemporary Social Problems	3
		<u>10</u>

List A: Select two of the following:

SOC 114	Introduction to Race and Ethnicity	3
SOC 125	Marriage, Family and Alternative Lifestyles	3
PSY 138/SOC 138	Social Psychology	3
SOC 140	Sex and Gender Across Cultures	3
		<u>6</u>

List B: Select one of the following:

ANTH 120	Cultural Anthropology	3
PSY 120	Introductory Psychology	3
Any course not already used in list A		3
		<u>3</u>

Total Units for Major (12 units may be double counted with GE)		19
Total Units for CSU GE Breadth or IGETC-CSU		39/37
Total Transferable Elective Units		14/16
Total Units for Degree		60

Please note: SDSU accepts this degree for students transferring into Sociology B.A.

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The Area of Emphasis requirements are changing from 6 units in Social Science and 6 units in Behavioral Science, with an additional 6 units in either area to 3 units in Social Science, 3 units in Behavioral Science and an additional 12 units in either area. Added the Ethnic Studies series courses, and HIST 107, HIST 133, POSC 165, POSC 166, SOC 138, and SOC 150.#

BEHAVIORAL & SOCIAL SCIENCES

UNIVERSITY STUDIES: SOCIAL AND BEHAVIORAL SCIENCES

The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

REQUIREMENTS:

I. CALIFORNIA STATE UNIVERSITY (CSU) GENERAL EDUCATION BREADTH

1. Complete CSU General Education Breadth (see Degree Requirements and Transfer Information section).
2. Earn a grade of "C" or better in 30 of the required 39 semester units of general education to include all courses in Area A and the Mathematical/Quantitative Reasoning courses in Area B.
3. Credit earned through external examinations, i.e., AP, will be applied towards general education in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on a CSU certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable CSU transferable semester units.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

OR

II. INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) FOR CSU OR UC

1. Complete IGETC Certification (see Degree Requirements and Transfer Information section).
2. Earn a grade of "C" or better in all IGETC courses.
3. Credit earned through external examinations, i.e., AP, will be applied in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on an IGETC certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable UC transferable semester units for UC University Studies.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

AND

III. AREA OF EMPHASIS

- Social and Behavioral Sciences

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

Courses for the Associate in Arts in University Studies with an Emphasis in Social and Behavioral Sciences focus on the study and understanding of human behavior. Students will evaluate and interpret human societies; the institutions, organizations, and the groups that form them; the ways in which individuals and groups relate to one another; and various

approaches and methodologies of the disciplines. Students completing this area may be interested in the following baccalaureate majors: anthropology, child development, education, history, nutrition, political science, psychology, social work, and sociology. Students must complete a minimum of three units in Social Science and three units in Behavioral Science. The remaining twelve units may be taken from either category.

PROGRAM LEARNING OUTCOMES

Upon successful completion of this program, students will be able to:

- Describe general principles of the political institutions and government of the United States.
- Demonstrate an understanding and appreciation of social, political, and economic institutions within a historical perspective.
- Evaluate the ways people act and interact in cultures, societies and social subgroups.
- Assess how social issues are influenced by geographical and historical processes.
- Apply knowledge of social and behavioral sciences theories and scientific methods in an assessment of real-world problems.

SOCIAL SCIENCE

ANTH 120, 140
BIO 134
ECON 110, 120, 121
ETHN 107*, 114, 118, 119, 130, 131, 132, 133, 150*, 165*, 166*, 180, 181
GEOG 106, 130
HIST 100, 101, 105, 106, 107*, 108, 109, 118, 119, 122, 123, 124, 130, 131, 132, 133, 148, 180, 181, 275, 276, 277
POSC 120, 121, 124, 130, 140, 165*, 166*, 170
SOC 114, 120, 125, 130, 138*, 150*, 140
SPAN 145*

BEHAVIORAL SCIENCE

CD 115, 125, 131, 145
COMM 110, 124
HED 120, 201, 203, 204, 251*
PSY 120, 125, 134, 138, 140, 150, 170, 201*, 211, 220

*Course not UC-transferable

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Comments

Added the new program to the catalog for Business Administration 2.0 (AS-T).#

BUSINESS

**BUSINESS
ADMINISTRATION 2.0
FOR TRANSFER (AS-T)**

This program is designed to provide students with the common core of lower division courses required to transfer and pursue a baccalaureate degree in Business Administration. This includes business degrees with options such as accounting, finance, human resources management, international business, management, operations management, and marketing. This major aligns with the California State University (CSU) Bachelor of Science in Business Administration.

The following is required for the AS-T in Business Administration for Transfer degree:

1. Minimum of 60 CSU-transferable semester units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California State University General Education (CSU GE) Breadth pattern OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information.

Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU.

PROGRAM OUTCOMES

Upon completion of this program, students will be able to:

- Recognize essential functions and concerns specific to human resources, management, and general business operations.
- Identify and analyze business problems or entrepreneurial opportunities and effectively communicate recommendations for courses of actions.

**ASSOCIATE IN SCIENCE DEGREE
REQUIREMENTS:**

CORE CURRICULUM:

<i>Course</i>	<i>Title</i>	<i>Units</i>
BUS 120	Financial Accounting	4
BUS 121	Managerial Accounting	4
BUS 125	Business Law: Legal environment of Business	3
BUS 128	Business Communication	3
ECON 120	Principles of Macroeconomics	3
ECON 121	Principles of Microeconomics	3
MATH 160	Elementary Statistics	4

or

PSY 215 Statistics for the Behavioral Sciences 4
 MATH 178 Calculus for Business, Social and Behavioral Sciences 4

or

MATH 180 Analytical Geometry and Calculus 5

Total Units for Major (9 units may be double-counted with GE) 28-29
 Total Units for CSU GE Breadth or IGETC-CSU 39/37
 Total Transferable Elective Units 1-4
 Total Units for Degree 60

Please note: SDSU accepts this degree for students transferring into Business Administration (Financial Services) or Business Administration (General) majors.

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Comments

Area of Emphasis requirements are changing from 6 units in Business, 6 units in Economics, with an additional 6 units in Electives to 3 units in Business, 3 units in Economics and an additional 12 units in either area.#

BUSINESS

UNIVERSITY STUDIES: BUSINESS AND ECONOMICS

The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

REQUIREMENTS:

I. CALIFORNIA STATE UNIVERSITY (CSU) GENERAL EDUCATION BREADTH

1. Complete CSU General Education Breadth (see Degree Requirements and Transfer Information section).
2. Earn a grade of "C" or better in 30 of the required 39 semester units of general education to include all courses in Area A and the Mathematical/Quantitative Reasoning courses in Area B.
3. Credit earned through external examinations, i.e., AP, will be applied towards general education in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on a CSU certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable CSU transferable semester units.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

OR

II. INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) FOR CSU OR UC

1. Complete IGETC Certification (see Degree Requirements and Transfer Information section).
2. Earn a grade of "C" or better in all IGETC courses.

3. Credit earned through external examinations, i.e., AP, will be applied in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on an IGETC certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable UC transferable semester units for UC University Studies.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

AND

III. AREA OF EMPHASIS

- Business and Economics

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

Courses for the Associate in Science in University Studies with an Emphasis in Business and Economics focus on the study of business transaction theory and practice, the operations and strategies of business decisions, legal concepts, and the place of business in the American and global economy as a whole. Students will apply mathematical and quantitative reasoning skills to the discipline's methodologies, as well as evaluate and interpret basic economic principles and theories related to performance and specific economic sectors. Students completing this area may be interested in the following baccalaureate majors: accounting, business, economics, finance, information and decision systems, international business, management, and marketing. Students must complete a minimum of three units in Business, three units in Economics, and twelve units from either category.

PROGRAM LEARNING OUTCOMES

Upon successful completion of this program, students will be able to:

- Contribute to an effective and ethical organization.
- Prepare and analyze financial statements.
- Use information technology to support effective decision making in the business organization.
- Analyze markets, economic environments and associated trends at the macro and micro levels.
- Express and apply quantitative information in order to make sound decisions and solve problems in the business environment.
- Communicate clearly in the business environment.

BUSINESS

BUS 110, 120, 121, 125, 128*

ECONOMICS

ECON 110, 120, 121

ELECTIVES

CIS 110; MATH 160, 178, 180

*Course not UC transferable

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Comments

The Area of Emphasis requirements are changing from 6 units in Humanities and 6 units in Fine Arts, with an additional 6 units in either area to 3 units in Humanities, 3 units in Fine Arts and an additional 12 units in either area. Added the Ethnic Studies series courses, ENGL 236, ENGL 238, PHIL 141, and MUS 123. Removed ENGL 214.#

CULTURE, PEOPLE & IDEAS

UNIVERSITY STUDIES: HUMANITIES AND FINE ARTS

The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

REQUIREMENTS:

I. CALIFORNIA STATE UNIVERSITY (CSU) GENERAL EDUCATION BREADTH

1. Complete CSU General Education Breadth (see Degree Requirements and Transfer Information section).
2. Earn a grade of "C" or better in 30 of the required 39 semester units of general education to include all courses in Area A and the Mathematical/Quantitative Reasoning courses in Area B.
3. Credit earned through external examinations, i.e., AP, will be applied towards general education in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on a CSU certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable CSU transferable semester units.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

OR

II. INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) FOR CSU OR UC

1. Complete IGETC Certification (see Degree Requirements and Transfer Information section).

2. Earn a grade of "C" or better in all IGETC courses.
3. Credit earned through external examinations, i.e., AP, will be applied in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on an IGETC certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable UC transferable semester units for UC University Studies.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

AND

III. AREA OF EMPHASIS

- Humanities and Fine Arts

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

Courses for the Associate in Arts in University Studies with an Emphasis in Humanities and Fine Arts focus on the study of cultural, humanistic activities, and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them through artistic and cultural creation. Students will develop an aesthetic awareness and incorporate these concepts when constructing value judgments. Students completing this area may be interested in the following baccalaureate majors: art, humanities, music, philosophy, religious studies, and theatre arts. Students must complete a minimum of three units in Humanities and three units in Fine Arts. The remaining twelve units may be taken from either category.

PROGRAM LEARNING OUTCOMES

Upon successful completion of this program, students will be able to:

- Analyze the principle elements of representative examples of art, architecture, literature, theater, philosophy, music, dance, film, or other relevant areas of cultural and/or intellectual creativity.
- Demonstrate an awareness of the historical and philosophical contexts of representative areas, movements, media, works, or styles of cultural and/or intellectual creativity.
- Employ the language, concepts and methods of interpretive criticism as applicable to the respective categories of human creativity.
- When applicable, apply artistic processes and skills as a creative expression, using a variety of media to communicate meaning and intent in original works of art.

HUMANITIES

ARAM 120, 121, 220
ARBC 120, 121, 122, 123, 220, 221, 254
ART 140, 141, 143, 145, 146, 149
ASL 120, 121, 140, 220, 221
ENGL 122, 201, 202, 217, 221, 222, 231, 232, 236, 238, 270, 271
ETHN 111*, 236, 238
HIST 100, 101, 105, 106, 114, 115
HUM 110, 111*, 115, 116, 117*, 120, 140, 155
NAKY 120, 121, 220
PHIL 110, 115, 117, 140, 141, 160, 170
RELG 120, 130, 160, 170
SPAN 120, 121, 141, 145*, 220, 221, 250, 251

FINE ARTS

ART 100, 120, 124, 125, 129, 140, 141, 143, 144, 145, 146, 148, 241, 242
MUS 110, 111, 115, 116, 117, 123*
THTR 110

* Course not UC transferable

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Comments

Added the Associate in Science degree option to the program.#

ENVIRONMENTAL & APPLIED TECHNOLOGY

AUTOMOTIVE TECHNOLOGY CHASSIS SPECIALIST

Many businesses need technicians with very specific skills to diagnose and repair complex problems of brakes, suspension, and dynamic vehicle driving systems. This specialized degree includes antilock braking, electronic suspension, and alignment training. Successful students will qualify to take the California Bureau of Automotive Licensing exams for Brake and Lamp licensing. Work experience is a requirement for this major, which ensures student competency and success. All students are required to complete a digital portfolio resume used for assessment and practicum. Students completing all courses and general education courses will receive an Associates of Science during Commencement. Students completing all automotive course requirements will receive a Certificate of Achievement during Commencement.

PROGRAM LEARNING OUTCOMES

Upon successful completion of this program, students will be able to:

- Accurately describe and demonstrate knowledge of various automotive brake, steering, and suspension systems.
- Diagnose and repair automotive chassis systems by performing necessary actions.
- Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
- Comply with environmental health and safety regulations at the state and federal levels.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

Course	Title	Units
AUTO 131	Manual Transmission and Transaxle Repair	1
AUTO 131L	Manual Transmission and Transaxle Repair Laboratory	1
AUTO 131T	Manual Transmission and Transaxle Repair Assessment Test Out	0.5
AUTO 132	Differential and 4WD System Diagnosis and Repair	1
AUTO 132L	Differential and 4WD System Diagnosis and Repair Laboratory	1
AUTO 132T	Differential and 4WD System Diagnosis and Repair Assessment Test Out	0.5
AUTO 143	Steering and Suspension Diagnosis and Repair	1

AUTO 143L	Steering and Suspension Diagnosis and Repair Laboratory	1
AUTO 143T	Steering and Suspension Diagnosis and Repair Assessment Test Out	0.5
AUTO 144	Noise, Vibration, and Harshness Diagnosis	0.5
AUTO 144L	Noise, Vibration, and Harshness Diagnosis Laboratory	1
AUTO 144T	Noise, Vibration, and Harshness Diagnosis Assessment Test Out	0.5
AUTO 151	Brake System Diagnosis and Repair	2
AUTO 151L	Brake System Diagnosis and Repair Laboratory	1
AUTO 151T	Brake System Diagnosis and Repair Assessment Test Out	0.5
AUTO 153	Advanced Brake System Diagnosis and Repair	2
AUTO 153L	Advanced Brake System Diagnosis and Repair Laboratory	1
AUTO 153T	Advanced Brake System Diagnosis and Repair Assessment Test Out	0.5
AUTO 161	Electrical Diagnosis and Repair	2
AUTO 161L	Electrical Diagnosis and Repair Laboratory	1
AUTO 161T	Electrical Diagnosis and Repair Assessment Test Out	0.5
AUTO 162	Electronics Diagnosis and Repair	2
AUTO 162L	Electronics Diagnosis and Repair Laboratory	1
AUTO 162T	Electronics Diagnosis and Repair Assessment Test Out	0.5
*AUTO 212	Automotive Technology Work Experience	12
Total Required		35.5
Plus General Education Requirements		

*Must be taken for a total of 12 units.

CERTIFICATE OF ACHIEVEMENT

Students who complete the requirements above qualify for a Certificate in Automotive Technology Chassis Specialist. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Page: 79

Comments

Added the Associate in Science degree option to the program.#

ENVIRONMENTAL & APPLIED TECHNOLOGY

AUTOMOTIVE TECHNOLOGY DRIVETRAIN SPECIALIST

Many businesses need technicians with very specific skills to diagnose and repair complex problems of transmissions, transaxles, and differential vehicle power systems. This specialized degree includes electronic controlled valve bodies, electronic differentials, four wheel drive, and all-wheel drive systems. Successful students will obtain a highly desired specialty set of skills. Work experience is a requirement for this major, which ensures student competency and success. All students are required to complete a digital portfolio resume used for assessment and practicum. Students completing all courses and general education courses will receive an Associate of Science during Commencement. Students completing all automotive course requirements will receive a Certificate of Achievement during Commencement.

PROGRAM LEARNING OUTCOMES

Upon successful completion of this program, students will be able to:

- Accurately describe and demonstrate knowledge of various automotive automatic, manual, electric and electronic drivetrain systems.
- Diagnose and repair automotive power transmission systems by performing necessary actions.
- Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
- Comply with environmental health and safety regulations at the state and federal levels.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

<i>Course</i>	<i>Title</i>	<i>Units</i>
AUTO 121	Automatic Transmission Theory and Operation	2
AUTO 121L	Automatic Transmission Theory and Operation Laboratory	1
AUTO 121T	Automatic Transmission Theory and Operation Assessment Test Out	0.5
AUTO 126	Automatic Transmission Diagnosis and Testing	2
AUTO 126L	Automatic Transmission Diagnosis and Testing Laboratory	1
AUTO 126T	Automatic Transmission	

	Diagnosis and Testing Assessment Test Out	0.5
AUTO 131	Manual Transmission and Transaxle Repair	1
AUTO 131L	Manual Transmission and Transaxle Repair Laboratory	1
AUTO 131T	Manual Transmission and Transaxle Repair Assessment Test Out	0.5
AUTO 132	Differential and 4WD System Diagnosis and Repair	1
AUTO 132L	Differential and 4WD System Diagnosis and Repair Laboratory	1
AUTO 132T	Differential and 4WD System Diagnosis and Repair Assessment Test Out	0.5
AUTO 161	Electrical Diagnosis and Repair	2
AUTO 161L	Electrical Diagnosis and Repair Laboratory	1
AUTO 161T	Electrical Diagnosis and Repair Assessment Test Out	0.5
AUTO 162	Electronics Diagnosis and Repair	2
AUTO 162L	Electronics Diagnosis and Repair Laboratory	1
AUTO 162T	Electronics Diagnosis and Repair Assessment Test Out	0.5
AUTO 263	Advanced Electronics	1
AUTO 263L	Advanced Electronics Laboratory	1
AUTO 263T	Advanced Electronics Assessment Test Out	0.5
AUTO 264	Hybrid and Electric Vehicle Operation and Diagnosis	1
AUTO 264L	Hybrid and Electric Vehicle Operation and Diagnosis Laboratory	1
AUTO 264T	Hybrid and Electric Vehicle Operation and Diagnosis Assessment Test Out	0.5
*AUTO 212	Automotive Technology Work Experience	12
	Total Required	36
	Plus General Education Requirements	

*Must be taken for a total of 12 units.

CERTIFICATE OF ACHIEVEMENT

Students who complete the requirements above qualify for a Certificate in Automotive Technology Drivetrain Specialist. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

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Comments

Added the Associate in Science degree option to the program.#

ENVIRONMENTAL & APPLIED TECHNOLOGY

AUTOMOTIVE TECHNOLOGY ELECTRONICS AND ELECTRIC VEHICLE SPECIALIST

Many businesses need technicians with very specific skills to diagnose and repair complex problems in the Electric Vehicle and Hybrid Vehicle specialty. The high voltage battery and vehicle power systems require extremely fast computer multiplexing. This specialized degree includes electronic controlled autonomous drive systems, electronic motor drive, four wheel motor drive, and hybrid drive systems. Successful students will obtain a highly desired specialty set of skills. Work experience is a requirement for this major, which ensures student competency and success. All students are required to complete a digital portfolio resume used for assessment and practicum. Students completing all courses and general education courses will receive an Associate of Science during Commencement. Students completing all automotive course requirements will receive a Certificate of Achievement during Commencement.

PROGRAM LEARNING OUTCOMES

Upon successful completion of this program, students will be able to:

- Accurately describe and demonstrate knowledge of various electrical, electronic, hybrid, and electric vehicle systems.
- Diagnose and repair advanced electronic automotive systems by performing necessary actions.
- Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
- Comply with environmental health and safety regulations at the state and federal levels.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

<i>Course</i>	<i>Title</i>	<i>Units</i>
AUTO 121	Automatic Transmission Theory and Operation	2
AUTO 121L	Automatic Transmission Theory and Operation Laboratory	1
AUTO 121T	Automatic Transmission Theory and Operation Assessment Test Out	0.5

AUTO 132	Differential and 4WD System Diagnosis and Repair	1	AUTO 263L	Advanced Electronics Laboratory	1
AUTO 132L	Differential and 4WD System Diagnosis and Repair Laboratory	1	AUTO 263T	Advanced Electronics Assessment Test Out	0.5
AUTO 132T	Differential and 4WD System Diagnosis and Repair Assessment Test Out	0.5	AUTO 264	Hybrid and Electric Vehicle Operation and Diagnosis	1
AUTO 143	Steering and Suspension Diagnosis and Repair	1	AUTO 264L	Hybrid and Electric Vehicle Operation and Diagnosis Laboratory	1
AUTO 143L	Steering and Suspension Diagnosis and Repair Laboratory	1	AUTO 264T	Hybrid and Electric Vehicle Operation and Diagnosis Assessment Test Out	0.5
AUTO 143T	Steering and Suspension Diagnosis and Repair Assessment Test Out	0.5	AUTO 283	Advanced Engine Performance	1
AUTO 153	Advanced Brake System Diagnosis and Repair	2	AUTO 283L	Advanced Engine Performance Laboratory	1
AUTO 153L	Advanced Brake System Diagnosis and Repair Laboratory	1	AUTO 283T	Advanced Engine Performance Assessment Test Out	0.5
AUTO 153T	Advanced Brake System Diagnosis and Repair Test Assessment Out	0.5	*AUTO 212	Automotive Technology Work Experience	12
AUTO 161	Electrical Diagnosis and Repair	2		Total Required	48
AUTO 161L	Electrical Diagnosis and Repair Laboratory	1		Plus General Education Requirements	
AUTO 161T	Electrical Diagnosis and Repair Assessment Test Out	0.5			
AUTO 162	Electronics Diagnosis and Repair	2			
AUTO 162L	Electronics Diagnosis and Repair Laboratory	1			
AUTO 162T	Electronics Diagnosis and Repair Assessment Test Out	0.5			
AUTO 171	Climate Control Systems Diagnosis and Repair	1			
AUTO 171L	Climate Control Systems Diagnosis and Repair Laboratory	1			
AUTO 171T	Climate Control Systems Diagnosis and Repair Assessment Test Out	0.5			
AUTO 181	Engine Performance I Ignition and Fuel Systems	2			
AUTO 181L	Engine Performance I Ignition and Fuel Systems Laboratory	1			
AUTO 181T	Engine Performance I Ignition and Fuel Systems Assessment Test Out	0.5			
AUTO 183	Engine Performance II Intake Exhaust and Emission Systems	2			
AUTO 183L	Engine Performance II Intake Exhaust and Emission Systems Laboratory	1			
AUTO 183T	Engine Performance II Intake Exhaust and Emission Systems Assessment Test Out	0.5			
AUTO 263	Advanced Electronics	1			

*Must be taken for a total of 12 units.

CERTIFICATE OF ACHIEVEMENT

Students who complete only the major requirements above qualify for a Certificate in Automotive Technology Electronics and Electric Vehicle Specialist. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

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Comments

The Area of Emphasis requirements are changing from 6 units in Communication and 6 units in Language Arts, with an additional 6 units in either area to 3 units in Communication, 3 units in Language Arts and an additional 12 units in either area. Added ENGL 236, ENGL 238, ETHN 236, and ETHN 238. Removed ENGL 214. #

LANGUAGE AND COMMUNICATION

UNIVERSITY STUDIES: COMMUNICATION AND LANGUAGE ARTS

The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

REQUIREMENTS:

I. CALIFORNIA STATE UNIVERSITY (CSU) GENERAL EDUCATION BREADTH

1. Complete CSU General Education Breadth (see Degree Requirements and Transfer Information section).
2. Earn a grade of "C" or better in 30 of the required 39 semester units of general education to include all courses in Area A and the Mathematical/Quantitative Reasoning courses in Area B.
3. Credit earned through external examinations, i.e., AP, will be applied towards general education in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on a CSU certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable CSU transferable semester units.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

OR

II. INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) FOR CSU OR UC

1. Complete IGETC Certification (see Degree Requirements and Transfer Information section).

2. Earn a grade of "C" or better in all IGETC courses.
3. Credit earned through external examinations, i.e., AP, will be applied in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on an IGETC certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable UC transferable semester units for UC University Studies.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

AND

III. AREA OF EMPHASIS

- Communication and Language Arts

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

Courses for the Associate in Arts in University Studies with an Emphasis in Communication and Language Arts focus on the study of how language works to express human ideas and feelings. Students will explore and analyze written and verbal communication methods, as well as develop and advance their oral and written communication skills. Students completing this area may be interested in the following baccalaureate majors: communication, English, foreign language, literature, journalism, and linguistics. Students must complete a minimum of three units in Communication and three units in Language Arts. The remaining twelve units may be taken from either category.

PROGRAM LEARNING OUTCOMES

Upon successful completion of this program, students will be able to:

- Demonstrate the ability to write effectively.
- Demonstrate the ability to locate relevant, reliable information and read it effectively.
- Organize thoughts and ideas in both oral and written format.
- Communicate effectively with diverse audiences.

COMMUNICATION

BUS 128*
COMM 110, 120, 122, 123, 124, 130, 137, 145

LANGUAGE ARTS

ARAM 120, 121, 220
ARBC 120, 121, 122, 123, 220, 221, 254
ASL 120, 121, 220, 221
BUS 128*
ENGL 122, 124, 126, 201, 202, 221, 222, 231, 232, 236, 238, 270, 271
ETHN 236, 238
NAKY 120, 121, 220
SPAN 120, 121, 220, 221, 250, 251

*Course not UC transferable

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Comments

PHYC 190 replaced with PHYC 201. Δ

STEM

MATHEMATICS



**Associate Degree
for TransferSM**

I. MATHEMATICS FOR TRANSFER (AS-T)

This program is designed to prepare students for transfer to a California State University (CSU) with the intent of earning a B.S. degree in Mathematics. Since jobs requiring mathematical skills such as data analysis, problem solving, pattern recognition, statistics, and probability are in high demand, the mathematics major may benefit both educationally and economically from developing and pursuing an interest in mathematics. Mathematical skills and statistical methods are employed regularly by researchers testing hypotheses, by workers applying quality control in manufacturing, and by informed citizens who must evaluate information from the media in tabular, graphical, and report form in order to reach solutions. This major offers a foundation in these necessary skills. The emphasis is to prepare students for transfer to a four-year institution and/or for career preparation in a vocational or professional field.

The following is required for the AS-T in Mathematics for Transfer degree:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California State University General Education (CSU GE) Breadth pattern OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information. Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU

PROGRAM LEARNING OUTCOMES

Upon successful completion of this program, students will be able to:

- Apply mathematical reasoning and problem solving strategies to analyze, interpret, and model applications from degree and transfer-level courses and programs in math, science, engineering, business, and technology.

- Select and apply appropriate definitions, postulates, and theorems to prove mathematical statements.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:

CORE CURRICULUM:

<i>Course</i>	<i>Title</i>	<i>Units</i>
MATH 180	Analytic Geometry and Calculus I	5
MATH 280	Analytic Geometry and Calculus II	4
MATH 281	Multivariable Calculus	4
		13

LIST A: SELECT ONE OF THE FOLLOWING:

MATH 284	Linear Algebra	3
MATH 285	Differential Equations	3
		3

LIST B: SELECT ONE OF THE FOLLOWING:

CS 181	Intro to C++ Programing	4
MATH 160	Elementary Statistics	4
MATH 245	Discrete Mathematics	3
PHYC 201	Mechanics and Waves	5
	Any course from List A not selected above	3
		3-5

Total Units for Major (7 units may be double-counted with GE)	19-21
Total Units for CSU GE Breadth or IGETC-CSU	39/37
Total Transferable Elective Units	7-9
Total Units for Degree	60

Please note: SDSU accepts this degree for students transferring into Mathematics (Science Emphasis) B.S.

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Comments

The Area of Emphasis requirements are changing from 6 units in Science and 6 units in Mathematics, with an additional 6 units in either area to 3 units in Science, 3 units in Mathematics and an additional 12 units in either area. Added PHYC 201, PHYC 202, and PHYC 203.#

STEM

UNIVERSITY STUDIES: SCIENCE AND MATHEMATICS

The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

REQUIREMENTS:

I. CALIFORNIA STATE UNIVERSITY (CSU) GENERAL EDUCATION BREADTH

1. Complete CSU General Education Breadth (see Degree Requirements and Transfer Information section).
2. Earn a grade of "C" or better in 30 of the required 39 semester units of general education to include all courses in Area A and the Mathematical/Quantitative Reasoning courses in Area B.
3. Credit earned through external examinations, i.e., AP, will be applied towards general education in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on a CSU certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable CSU transferable semester units.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

OR

II. INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) FOR CSU OR UC

1. Complete IGETC Certification (see Degree Requirements and Transfer Information section).

2. Students pursuing an Associate's Degree in University Studies: Science and Mathematics may follow IGETC for STEM requirements. IGETC for STEM permits a student to delay one GE course in Humanities and one in Social Sciences until after transfer. One 3A and one 3B course must be selected.
3. Earn a grade of "C" or better in all IGETC courses.
4. Credit earned through external examinations, i.e., AP, will be applied in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on an IGETC certification.
5. Complete a minimum of 18 units in an Area of Emphasis (listed below).
6. Complete a minimum of 60 degree applicable UC transferable semester units for UC University Studies.
7. Earn a cumulative GPA of 2.0 in all college course work completed.
8. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

AND

III. AREA OF EMPHASIS

- Science and Mathematics

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

Courses for the Associate in Science in University Studies with an Emphasis in Science and Mathematics focus on the study of mathematical and quantitative reasoning skills and the application of facts and principles that form the foundations of living and non-living systems. Students will recognize and utilize the methodologies of science as investigative tools, as well as the limitations of science. Students will use mathematical skills to solve numerical problems encountered in daily life, as well as

more advanced skills for applications in the physical and life sciences. Students completing this area may be interested in the following baccalaureate majors: astronomy, biological sciences, chemistry, computer science, engineering, geography, geology, mathematics, oceanography, physical science, and physics. Students must complete a minimum of three units in Science and three units in Mathematics (limitation of one statistics course). The remaining twelve units may be taken from either category.

PROGRAM LEARNING OUTCOMES

Upon successful completion of this program, students will be able to:

- Use arithmetical, algebraic, geometric and statistical methods to solve problems.
- Interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them.
- Represent mathematical information symbolically, visually, numerically and verbally.
- Use the scientific method of inquiry and techniques to answer questions about physical and biological processes.
- Analyze basic concepts of physical and biological science to evaluate scientific information and solve scientific problems.

SCIENCE

ANTH 130
 ASTR 110, 112
 BIO 115, 122, 130, 131, 133, 134, 135, 140, 141, 141L, 152, 230, 240, 251
 CHEM 102, 115, 116, 120, 141, 142, 231, 232
 CS 119, 119L, 181, 182, 281, 282
 GEOG 120, 121
 GEOL 104, 110, 111
 OCEA 112, 113
 PHYC 110, 130, 131, 190, 200, 201, 202, 203, 210

MATHEMATICS

BIO 215
 MATH 160, 170*, 175, 176, 178, 180, 245, 280, 281, 284, 285
 PSY 215

*Course not UC transferable

Pages 112-166 Comments

Below are courses which are now designated as UC transferable[^]

ARBC 130 - ARABIC LITERATURE AND CULTURE
ESL 122 - COLLEGE RHETORIC (NOTE: EQUIVALENT TO ENGL 120)
ETHN/HIST 107 - HISTORY OF RACE AND ETHNICITY IN THE UNITED STATES
ETHN/HUM 111 - CULTURE, ART, AND IDEAS OF THE UNITED STATES
ETHN/POSC 165 - INTRODUCTION TO THE POLITICS OF RACE AND GENDER
ETHN/POSC 166 - INTRODUCTION TO NATIVE AMERICAN POLITICS AND POLICY
ETHN/SOC 150 - LATINX SOCIOLOGY
HUM 117 - KUMEYAAY ARTS AND CULTURE II
MUS 123 - HISTORY OF HIP-HOP CULTURE
POSC 180 - INTRODUCTION TO PUBLIC POLICY
SOC 138 - SOCIAL PSYCHOLOGY

Pages: 145-146

Comments

Expanded the designations on the Ethnic Studies courses to correspond with the cross-listed course. Δ

ETHNIC STUDIES (ETHN)**107* HISTORY OF RACE & ETHNICITY IN THE UNITED STATES 3 UNITS**

3 hours lecture

An introduction to the historical and socio-cultural experiences of racial and ethnic groups and their roles in shaping society and culture in the United States, from pre-contact to the present. Focus will be on migration, colonization, racialization, discrimination, assimilation, social stratification, liberation movements, and the intersection of racial, ethnic, gender, sexual identities as they relate to African Americans, Asian Americans, Latinas/os/x, Native Americans, and Middle Eastern Americans. *Also listed as HIST 107. Not open to students with credit in HIST 107.*

AA/AS GE, CSU, CSU GE

111 CULTURE, ART & IDEAS OF THE UNITED STATES 3 UNITS

3 hours lecture

Humanities of the United States explored through film and television, music, dance, graphic novels, writing, photography, handicrafts (i.e. weaving, pottery, quilting, etc.), architecture, food, philosophy, and social institutions. Focus will be on the experiences and contributions of African Americans, Asian Americans, Latinas/os/x, Native Americans, and Middle Eastern Americans, with an emphasis on discrimination, social stratification, intersectionality, resistance, and liberation movements. *Also listed as HUM 111. Not open to students with credit in HUM 111.*

AA/AS GE, CSU, CSU GE

114 INTRODUCTION TO RACE & ETHNICITY 3 UNITS

3 hours lecture

An introduction to the sociological analysis of ethnicity, race, and immigration in the United States. Topics include the history of racialized and minoritized groups in the United States, patterns of interaction between racial and ethnic groups, colonialism, immigration, identity formation, prejudice, discrimination, ethnocentrism, racism, institutional racism, social movements for civil rights, liberation and decolonization, and the intersection of race and ethnicity with other forms of difference. *Also listed as SOC 114. Not open to students with credit in SOC 114.*

AA/AS GE, CSU, CSU GE, IGETC, UC

118* U.S. HISTORY: CHICANO/CHICANA PERSPECTIVES I 3 UNITS

3 hours lecture

Historical survey of Mexican Americans in the United States in which attention is given to social, political and economic background, with an emphasis on the origins of basic American institutions and ideals. Particular emphasis on the development of Spanish-speaking peoples' economic, social, political, and racialized experience in the United States, especially in the Southwest from the pre-contact period to the Mexican American War. *Also listed as HIST*

118. *Not open to students with credit in HIST 118.*

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

119* U.S. HISTORY: CHICANO/CHICANA PERSPECTIVES II 3 UNITS

3 hours lecture

Historical survey of Mexican Americans in the United States in which attention is given to the social, political, and economic background, including explorations of the U.S. and California constitutions and interactions between federal, state, and local governments. Particular emphasis on the economic, social and political experiences of Mexican Americans and Latinas/os/x in the United States, including migration, colonization, racialization, discrimination, assimilation, social stratification, liberation movements, and the intersection of racial, ethnic, gender, sexual identities, especially in the Southwest from the Mexican-American War to the present. *Also listed as HIST 119. Not open to students with credit in HIST 119.*

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

130* U.S. HISTORY AND CULTURES: NATIVE AMERICAN PERSPECTIVES I 3 UNITS

3 hours lecture

This course covers the social, political, cultural, economic, and intellectual history of indigenous groups in North America from pre-history to 1850. Areas of focus include: Native American perspectives of native and non-native cultures, the influence of Native Americans on the Federal Constitution and the U.S. political system, the impact of legislation on Native Americans, and Native American resistance and adaptability in response to land encroachment, racial and ethnic discrimination, and assimilation strategies. *Also listed as HIST 130. Not open to students with credit in HIST 130.*

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

131* U.S. HISTORY AND CULTURES: NATIVE AMERICAN PERSPECTIVES II 3 UNITS

3 hours lecture

This course covers the social, political, cultural, economic, and intellectual history of indigenous groups in North America from 1850 to the present. Areas of focus include: Native American perspectives of native and non-native cultures, the portrayal and influence of Native Americans in popular culture, the influence of Native Americans on the California State Constitution and government, the impact of State and Federal legislation on Native Americans, and Native American agency and resistance movements in the struggle for civil and political rights and indigenous sovereignty. *Also listed as HIST 131. Not open to students with credit in HIST 131.*

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

132 KUMEYAAY HISTORY I: PRECONTACT - 1845 3 UNITS

3 hours lecture

Historical survey of the Kumeyaay Nation from prehistoric times to 1845. Focus will be

on Kumeyaay perspectives of Kumeyaay and non-Kumeyaay cultures; Kumeyaay oral history as it relates to the Creation Story, bird songs, ceremonies, religion and peon games; tribal sovereignty; sociopolitical clan structures; and the evolution of Kumeyaay leadership. Special emphasis will be given to the health and morbidity of indigenous populations and their labor in relation to the Mission San Diego de Alcalá and historic ranchos in San Diego County. *Also listed as HIST 132. Not open to students with credit in HIST 132.*

AA/AS GE, CSU, CSU GE, IGETC, UC

133 KUMEYAAY HISTORY II: 1846 - PRESENT 3 UNITS

3 hours lecture

Historical survey of the Kumeyaay Nation from 1846 to the present. Focus will be on Kumeyaay perspectives of Kumeyaay and non-Kumeyaay cultures, creation of Kumeyaay reservations, Mission Indian Federation, Public Law 83-280, Indian self-determination, Indian Gaming Regulatory Act, contemporary tribal governments, landmark Indian Gaming court cases, and an overview of laws pertaining to Native Americans in the United States. Special emphasis will be given to contemporary issues affecting the Kumeyaay Nation and Kumeyaay tribal governments, including socioeconomic deficits, tribal sovereignty, blood quantum, tribal enrollment, demographic challenges, language loss and acquisition, historical trauma, and the growing equity gaps among tribes without casinos. *Also listed as HIST 133. Not open to students with credit in HIST 133.*

AA/AS GE, CSU, CSU GE, IGETC, UC

150 LATINX SOCIOLOGY 3 UNITS

3 hours lecture

This course is an in-depth sociological examination of Latinx/Hispanic communities in the United States. Topics include family structure, gender roles and sexuality; religion; economics; racialization, racism; intersectionality, social movements; U.S./Mexico border issues and immigration policy; and education. Emphasis is placed on social interactions, politics of identity formation, and social processes impacting the status of U.S. Latinx/Hispanics. This course is intended for sociology majors or any student interested in the social sciences. *Also listed as SOC 150. Not open to students with credit in SOC 150.*

AA/AS GE, CSU, CSU GE

165 INTRODUCTION TO THE POLITICS OF RACE AND GENDER 3 UNITS

3 hours lecture

This course is an introduction to the politics of race and gender. The course offers an overview of the identity, status, and power of Women, Native Americans, African Americans, Latina/o Americans, and Asian Americans from an intersectionality perspective. *Also listed as POSC 165. Not open to students with credit in POSC 165.*

AA/AS GE, CSU, CSU GE

166 INTRODUCTION TO NATIVE AMERICAN POLITICS AND POLICY 3 UNITS

3 hours lecture

This course introduces students to Native American politics and policy from the treaty making process that formed the foundation of contemporary tribal sovereignty to legal cases and precedents that impact Native American lands and people. The course will also explore how Native people have both petitioned for access into the American polity and actively resisted assimilation. Emphasis will be given to twelve recognized Kumeyaay tribal governments in the United States and four recognized Kumeyaay/Kumiai tribal governments in Baja California, Mexico. *Also listed as POSC 166. Not open to students with credit in POSC 166.*

AA/AS GE, CSU

180* U.S. HISTORY: BLACK PERSPECTIVES I 3 UNITS

3 hours lecture

United States history with an emphasis on social, economic, political and cultural experiences of Black people. Traces the development of African American history from African origins through the period of Reconstruction, with a focus on agency, resistance, self-determination, and liberation. *Also listed as HIST 180. Not open to students with credit in HIST 180.*

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

181* U.S. HISTORY: BLACK PERSPECTIVES II 3 UNITS

3 hours lecture

Examination of significant aspects of United States history from the aftermath of the Civil War to the present, including explorations of the U.S. and California constitutions and interactions between federal, state, and local governments. Emphasis is on the socio-economic, political, and cultural experiences of African Americans in the United States from Reconstruction to the present, with a focus on agency, resistance, self-determination, and liberation. *Also listed as HIST 181. Not open to students with credit in HIST 181.*

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

236— CHICANA/O LITERATURE 3 UNITS

Recommended Preparation: Placement into ENGL 120 or equivalent

3 hours lecture

This course is a survey of colonial, post-colonial, and contemporary Chicano/Chicana literature. Literary works originally written in English and the Chicano/a bilingual idiom as well as English translations of works written in Spanish will be taught. Reading selections may consist of poetry, ballads, short stories, novels, plays, and nonfiction prose. Students analyze the literature and apply critical theory to describe critical events in the histories, cultures, and intellectual and literary traditions, with special focus on the lived experiences, social struggles, and contributions of Latino/a Americans in the United States. *Also listed as ENGL 236. Not open to students with credit in ENGL 236.*

AA/AS GE, CSU, CSU GE, IGETC, UC

238—BLACK LITERATURE 3 UNITS

Recommended Preparation: Placement into ENGL

120 or equivalent

3 hours lecture

This course introduces students to a survey of Black literature, focusing on the early oral tradition, literature of slavery and freedom, the Harlem Renaissance, Modernism, the Black Arts Era, and the contemporary period. Reading selections may consist of poetry, short stories, plays, novels, and nonfiction prose, including essays, letters, political tracts, autobiographies, speeches, and sermons. Students analyze the literature and apply critical theory to describe critical events in the histories, cultures, and intellectual and literary traditions, with special focus on the lived experiences, social struggles, and contributions of African Americans in the United States. *Also listed as ENGL 238. Not open to students with credit in ENGL 238.*

AA/AS GE, CSU, CSU GE, IGETC, UC

*Can be used to satisfy U.S. History, Constitution, and American Ideals graduation requirement for the CSU.

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Comments

New course added^

GRAPHIC DESIGN (GD)

120 USER EXPERIENCE DESIGN 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in GD 105 or equivalent

Recommended Preparation: "C" grade or higher or "Pass" in GD 110 or equivalent

2 hours lecture, 3 hours laboratory

This introductory course is designed to equip you with a broad understanding of user experience (UX) and covers the foundations of User Experience Design and process including; user journeys, prototypes, information architecture, wireframes and prototypes. We will also be considering the critical role user experience plays in allowing businesses to access their target audience and how organizations can use user experience to increase customer engagement and revenue as well as reducing costs.

CSU

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Comments

Added I, to the title#

HUMANITIES (HUM)

**116 KUMEYAAY ARTS AND
CULTURE I**

3 UNITS

3 hours lecture

This course is a seasonal survey of arts and culture of the Kumeyaay Nation in what is now commonly known as San Diego and Imperial Counties and Baja California. Students will study Kumeyaay songs and stories, dance, games, pottery, philosophy, spiritual beliefs and traditions, and the various uses of winter and spring plant resources. Guest lectures by Kumeyaay experts will be integrated into the course. Field trips to various cultural sites and events are a required component of this class.

AA/AS GE, CSU, CSU GE, IGETC, UC