

GENERAL EDUCATION

TWO-TRACK GENERAL EDUCATION PROGRAM TRACK A		TWO-TRACK GENERAL EDUCATION PROGRAM TRACK B	
AREA	UNIT TOTAL (72 units)	AREA	UNIT TOTAL (72 units)
1. Communication & Critical Thinking 3 courses combining methods of inquiry, written communication, and oral communication These courses are sequential and are prerequisites for Areas 3,4,5. 12 units	12	1. Communication in the English Language Patterns 1 & 2 3 courses, 12 units	12
2. Science & Mathematics (Must include one lab) Options: (1) Same as Track B (2) ISGE or similar, as approved 4 courses, 16 units; 1 course each from Subareas A, B, C, D; Subarea D course must be upper division	16	2. Science & Mathematics 4 courses: 1 each from Subareas A, B, C, D; D must be upper division. 4 courses, 16 units	16
3. Humanities & Social Sciences World Cultures: Literary, Historical and Philosophical Perspectives--3 courses, nonsequential. 12 units; (1) The Human Conscience & Spirit; (2) Political Authority & Change; (3) Creativity, Technology, & Society; (4) Fine and Performing Arts--Intention, Process, and Product. Individual & Society--3 courses: 12 units, to include: 28 Lower or Upper Division: Consumers, Producers & Economic Institutions Upper Division: Readings in Human Behavior & Human Nature The Individual in a Diverse Society Recommend coordination of World Cultures and Fine and Performing Arts units; Individual in a Diverse Society must follow World Cultures 1,2,3		3. Humanities & Social Sciences Arts, Literature, Philosophy & Foreign Languages 3 courses--1 per area, 12 units Social, Political & Economic Institutions and Their Historical Background 3 courses--1 per area, 12 units. Integrated Being 1 course, 4 units	28
4. U.S. History, Constitution & Ideals 2 courses, 8 units:	8	4. U.S. History, Constitution & Ideals 2 courses, 8 units.	8
5. Breadth (Upper Division) Options (1) G.E. Seminars XXX 491,492 2-course sequence in a college World Cultures and Readings in Human Behavior and Nature. (2) Foreign Language (upper or lower division); not open to foreign language majors. (3) International Experience.	8	5. Breadth 2 upper division courses, both elected outside student's major 2 courses, 8 units *Provisions for IGE remain; IGE students will complete in Track A or Track B.	8

General Education—Unit Distribution

The General Education Program at California State Polytechnic University, Pomona shall be organized into the following distribution areas:

1. Communication in the English Language. Three (3) courses, 12 units (one course in Area A, B, and C)
2. Science and Mathematics. Four (4) courses, one (1) each from subareas A, B, C, D; D must be upper-division. Sixteen (16) units.
3. Humanities & Social Sciences:
 - A. Arts, Literature, Philosophy & Foreign Languages, three (3) courses, one (1) per subarea.
 - B. Social, Political & Economic Institutions and their Historical Background, three (3) courses, one (1) per subarea. Twelve (12) units
 - C. Integrated Being. One (1) course, four (4) units.
 - D. U.S. History, Constitution & Ideals. Two (2) courses, eight (8) units.
5. Breadth. Two (2) upper-division courses, both elected outside student's major. Eight (8) units.

General Education—Approved Coursework

Courses are approved by the Campus Academic Senate by area to meet the university general education program requirements. Coursework in general education should not be taken without a specific curricular goal. Students should consult with their departmental degree advisors or with the staff of the University Advising Centers. Many degree programs specify which university approved courses meet their more specific degree requirements. Such departments will list approved courses in their degree curriculum layouts and in their catalog section.

Courses listed as a sequence should be taken in order. For example, in the sequence MAT 114-115, MAT 114 should be completed before taking MAT 115. Each course in the sequence counts as one course toward meeting general education requirements.

Interdisciplinary General Education (IGE)

The Interdisciplinary General Education Program addresses the need for an integrated approach to curriculum, teaching, and scholarship and the creation of an extended learning community. As of July, 1994, the IGE Program is a part of the new School of Education and Integrative Studies, which shares these goals.

Students should also consult the coursework list for the Interdisciplinary General Education (IGE) Program. This program is open to any department wishing to adopt it as an option, and provides an integrative-thematic approach to the Humanities and Social Sciences components of General Education (areas 1, 3, and 4) for a total 32 units of the 48 lower-division units required. This program is designed as a two and one-half year program in which the participant studies both major coursework as well as courses designed to partially meet the University General Education requirement. Applicants for this program must take the EPT (score of 147 or better) or have this test waived because of other test scores (e.g., SAT, ACT, etc).

This is the preferred pattern for students in engineering and architecture. It is also recommended to all other students in the Colleges of Agriculture, Business Administration, Environmental Design, and Science. See departmental advisors or Program Director.

Transfer and Change of Major Students and General Education Certification

Community college transfer students and Cal Poly Pomona change of

major students are advised that, while they may be certified by their community colleges as having met all (or most) CSU lower division general education requirements, or have met GE requirements prior to change of major, many courses on the Cal Poly Pomona General Education list are also major department entrance or prerequisite requirements and will still have to be taken to meet degree requirements. For example, students may have met the quantitative reasoning requirement by taking an algebra course at the community college, or at Cal Poly Pomona, and be so certified. This will not meet the calculus requirement for engineering, which also meets the Cal Poly Pomona GE quantitative reasoning requirement. Calculus will still have to be taken. Such "excess" coursework will be given as "elective credit." Some transfer students may be certified by their community colleges as having met the CSU General Education quantitative reasoning requirement with coursework which does not meet the Cal Poly Pomona Mathematics proficiency requirement. Such students will also have to take coursework to meet this graduation requirement.

General Education—Course Lists

Note: Certain professional programs include GE course patterns not listed here. Students should consult the curriculum of the specific major to identify the exact GE requirement for the major. The symbol (t) indicates that a course may be taken on a credit/no credit basis. Please refer to corresponding major section in this catalog for prerequisites and detailed description of general education courses listed below.

Track A

This general education program provides an interdisciplinary and integrated approach to general education in Areas 1, 3, and 5. Track A incorporates the interdisciplinary, integrated core model of general education. The goals of these courses are to be interdisciplinary, to provide students with a broad liberal arts background to enhance students' computer literacy and provide substantial instruction in basic writing, reading, speaking, and critical thinking skills. These courses also demonstrate an attempt to foster connections between the sciences, technology, social sciences and humanities. The Track A courses are also designed to enhance students' exposure to other cultures and to international issues and phenomena.

There are 12 courses in Track A, totaling 48 units. There are three courses in Area I (Communication and Critical Thinking), for a total of 12 units, 7 in Area 3 (Humanities and Social Sciences) for a total of 28 units and 2 courses in Area 5 (Breadth) consisting of Upper Division Seminars or Foreign Language or International Experience, for a total of 8 units.

AREA 1—Communication and Critical Thinking

(Refer to University Programs section in this catalog for Track A course descriptions)

Communication and Critical Thinking I	GEN	101	(4)
Communication and Critical Thinking II	GEN	102	(4)
Communication and Critical Thinking III	GEN	103	(4)

AREA 2—Science and Mathematics

Same as Track B

AREA 3—Humanities and Social Sciences

The Human Conscience and Spirit	GEN	104	(4)
Political Authority and Change	GEN	105	(4)
Creativity, Technology and Society	GEN	106	(4)
Fine and Performing Arts –			
Intention, Process and Product	GEN	107	(4)
Consumers, Producers and Economic Institutions .GEN		108	(4)

Readings in Human Behavior and Nature	GEN	109	(4)
The Individual in a Diverse Society	GEN	110	(4)

AREA 4—U.S. History, Constitution and Ideals

Introduction to American Government	PLS	201	(4)
United States History	HST	202	(4)

AREA 5—Breadth (Choose one of the following)

Courses for this category will be listed on the Web as they are approved.
Approved courses at the time of printing are as follows:

Option I – Upper Division Seminars	GEN	401	(8)
Public Schooling and Literacy	TED	410	(4)
Seminar in Community Tutoring	TED	411	(4)

Option II – Foreign Language	GEN	402	(8)
Option III – International Experience	GEN	403	(8)

Track B**AREA 1—Communication in the English Language (12 units)**

Take one course in Area A, B, and C.

A. Written Communication

Freshman English I	ENG	104	(4)
(All speakers of English as a second language who have not achieved the minimum EPT score for ENG 104 must take ENG 102 and ENG 103 in place of ENG 104.)			

B. Oral Communication

Public Speaking	COM	100	(4)
Advocacy and Argument	COM	204	(4)

C. Critical Thinking

Freshman English II	ENG	105	(4)
Critical Thinking	PHL	202	(4)

AREA 2—Science and Mathematics (16 units)

Students are required to take at least one lower division (100 or 200-level) course from Sections A, B, and C. Students must take an upper division course in math or science to fulfill Section D. At least one laboratory course from Sections B or C is also required. Laboratory classes are marked with an "L" following the course number. Students must meet both ELM and MDT course prerequisites before enrolling in any mathematics or statistics course.

A. Mathematics

Students must meet both ELM and MDT course prerequisites before enrolling in any mathematics or statistics course.

MAT 105	College Algebra	(4)
MAT 106	Trigonometry	(4)
MAT 114	Analytic Geometry and Calculus I	(4)
MAT 115	Analytic Geometry and Calculus II	(4)
MAT 116	Analytic Geometry and Calculus II	(4)
MAT 125	Introductory Calculus for Business	(4)
MAT 130	Technical Calculus	(4)
MAT 135	Contemporary Mathematics	(4)
MAT 137	Survey of Geometry	(4)
MAT 191	Survey of Mathematics	(4)
STA 120	Statistics with Applications	(4)

B. The Physical Sciences

CHM 121/121L	General Chemistry	(4)
CHM 122/122L	General Chemistry	(4)
CHM 123/123L	General Chemistry	(4)

GEO 101	Physical Geography	(4)
†GSC 101	Fundamentals of Earth Science	(4)
†GSC 111	Principles of Geology	(3)
†GSC 112	Earth, Time, and Life	(3)
†GSC 115	Astronomy of the Solar System	(3)
†GSC 116	Astronomy of the Universe	(4)
†GSC 117L	Astronomy Laboratory	(1)
†GSC 120	Introduction to Oceanography	(4)
†GSC 141L	Principles of Geology Laboratory	(1)
†GSC 142L	Principles of Geology Field Trip	(1)
Note: GSC 142L (Does not meet lab science requirement.)		
†GSC 151L	Earth, Time, and Life Laboratory	(1)
†PHY 102	Fundamentals of Physics	(4)
PHY 104L	Conceptual Physics Laboratory	(4)
PHY 105/105L	Physics of Musical Sound	(4)
PHY 115/115L	Physics Concepts: A Hands-on Approach	(4)
PHY 121	College Physics	(3)
PHY 131	General Physics	(3)
PHY 141L	College Physics Laboratory	(1)
PHY 151L	General Physics Laboratory	(1)

C. The Life Sciences

BIO 110	Life Science	(3)
BIO 111L	Life Science Laboratory	(1)
BIO 115/115L	Basic Biology	(5)

D. Science, Technology and Civilization

Students must take an upper division course from the following list to fulfill Section D.

AGB 300	Insects and Civilization	(4)
AGR 311	Plants and Civilization	(4)
ANT 350	Environment, Technology, and Culture	(4)
AVS 300	Animal Issues in Science and Society	(4)
AVS 311	The Animal Industries and Society	(4)
CS 475	Computers and Society	(4)
EC 429	Seminar in Natural Resource Economics	(4)
EC 435	Seminar in Environmental Economics	(4)
FN 305	Nutrition, Science, and Health	(4)
GSC 320	Studies of a Blue Planet	(4)
GSC 350/350A	Geologic Catastrophes	(4)
FN 325	Current Issues in the Food Chain	(4)
IA/FN 445	Nutrition/International Development	(4)
KIN 301	Foundations of Sports Medicine	(4)
KIN 365	Growth, Aging, and Physical Activity	(4)
PHL 483	Philosophy of Science	(4)
PHY 301	Energy and Society	(4)
PHY 302	Physics of Everyday Experience	(4)
PHY 303	The Universe in Ten Weeks	(4)
RS 301	Life Support Processes	(4)

For Liberal Studies Major Pre-Credential Options only: Required for students who plan to meet state requirements for elementary school teachers and for precredential option in Liberal Studies. The following courses are to be taken in sequence. Students must take all courses listed in order to meet General Education requirements. See departmental advisor for more information.

MAT 191	Survey of Mathematics	(4)
SCI 211/211L	Chemical Sciences	(4)
BIO 110	Life Science	(4)
SCI 212/212L	Geological Sciences	(4)
SCI 210/210L	Physics Concepts and Activities	(4)

AREA 3—Humanities and Social Sciences (28 units)**Arts, Literature, Philosophy, and Foreign Languages (12 units)**

Students are required to take at least one course from each section. A minimum of 12 units must be completed. See also the Interdisciplinary General Education Program (IGE) Section, which is the pattern recommended for students in Engineering and Architecture.

A. Fine and Performing Arts

ART 110	The Visual Arts	(4)
ART 212	History of Western Art (Part I)	(4)
ART 213	History of Western Art (Part II)	(4)
ART 214	History of Western Art (Part III)	(4)
ART 216	History of Asian Art	(4)
DAN 202	Introduction to Dance	(4)
TH 203	Introduction to the Theater	(4)
TH 210	Introduction to the American Theater	(4)
ENV 112	Design and the Built Environment	(4)
ENV 115/115A	History of Art and Design	(4)
MU 100	Introduction to Music	(4)
MU 101	Music Appreciation	(4)
MU 103	World of Music	(4)
HOR 214	History of Garden Art	(4)
TH 125/125A	Introduction to Acting	(4)
TH 204	Live Theater Appreciation	(4)
URP 104	Evolution of Cities	(4)

B. Philosophy and History

HST 101	History of World Civilization: The Ancient Period	(4)
HST 102	History of World Civilization: The Middle Period	(4)
HUM 201	Introduction to the Humanities	(4)
HUM 202	Humanism & the Humanities	(4)
PHL 201	Introduction to Philosophy	(4)
PHL 204	Ethical Problems of Contemporary Life	(4)
PHL 205	Business and Professional Ethics	(4)
PHL 220	Religions of the World	(4)
PHL 221	Introduction to Religious Studies	(4)
REC 124	Philosophy of Leisure and the Work Ethic	(4)

C. Literature and Foreign Languages

ENG 201	Introduction to Modern Fiction	(4)
ENG 202	Introduction to Poetry or Modern Drama	(4)
ENG 203	Introduction to Shakespeare	(4)
ENG 204	Modern Fiction for Speakers of English as a Second Language	(4)
ENG 205	Black Literature in America	(4)
ENG 206	Introduction to Contemporary Literature	(4)
ENG 207	Survey of British Literature I	(4)
ENG 208	Survey of British Literature II	(4)
ENG 211	Survey of American Literature I	(4)
ENG 212	Survey of American Literature II	(4)
ENG 213	Ethnic Literatures of the U.S.	(4)
ENG 215	Latino Literature in America	(4)
ENG 216	The Bible as Literature	(4)
ENG 217	World Literature I	(4)
ENG 218	World Literature II	(4)
ENG 222	The Literature of Science Fiction	(4)
ENG 231	Introduction to Folklore	(4)
ENG 240	Women Writers	(4)
FL 101	Elementary French I	(4)
FL 102	Elementary French II	(4)
FL 103	Elementary French III	(4)
FL 111	Elementary German I	(4)
FL 112	Elementary German II	(4)

FL 113	Elementary German III	(4)
FL 114	Conversational German for Beginners	(4)
FL 121	Elementary Ancient Greek I	(4)
FL 122	Elementary Ancient Greek II	(4)
FL 123	Elementary Ancient Greek III	(4)
FL 131	Elementary Latin I	(4)
FL 132	Elementary Latin II	(4)
FL 133	Elementary Latin III	(4)
FL 141	Elementary Russian I	(4)
FL 142	Elementary Russian II	(4)
FL 143	Elementary Russian III	(4)
FL 151	Elementary Spanish I	(4)
FL 152	Elementary Spanish II	(4)
FL 153	Elementary Spanish III	(4)
FL 161	Elementary Japanese I	(4)
FL 162	Elementary Japanese II	(4)
FL 163	Elementary Japanese III	(4)
FL 201	Intermediate French	(4)
FL 202	Intermediate French Reading	(4)
FL 203	Intermediate French Composition and Conversation	(4)
FL 211	Intermediate German	(4)
FL 212	Intermediate German Reading	(4)
FL 213	Intermediate German Composition and Conversation	(4)
FL 251	Intermediate Spanish	(4)
FL 252	Intermediate Spanish Reading	(4)
FL 253	Intermediate Spanish Conversation	(4)
FL 254	Intermediate Spanish Composition	(4)
FL 261	Intermediate Japanese	(4)
FL 262	Intermediate Japanese Reading	(4)
FL 263	Intermediate Japanese Conversation	(4)

Social, Political, and Economic Institutions and Their Historical Background

D. Economic Institutions

EC 201	Principles of Economics	(4)
EC 202	Principles of Economics	(4)
IA 101	Global Resources for Food	(4)
HE 245	Consumerism: The Movement, Its Impact and Issues	(4)
MKT 201	The Consumer, Marketing and Society	(4)
OM 103	Business and Its Environment	(4)

E. Social Institutions

AMM 108	Culture, People and Dress	(4)
ANT 102	Introduction to Cultural Anthropology	(4)
EWS 140	Introduction to Ethnic Studies	(4)
EWS 145	Introduction to the Study of Women and Men in Society	(4)
EWS 201	African American Experience	(4)
EWS 202	Chicano/Latino Experience	(4)
EWS 203	Native American Experience	(4)
EWS 204	Asian American Experience	(4)
FN 228	Food and Culture	(4)
FNC 101	Introduction to Family Issues	(4)
GEO 102	Cultural Geography	(4)
KIN 449	Play, Games, and Sport	(4)
REC 125	Leisure in Society	(4)
SOC 201	Principles of Sociology	(4)
SOC 206	Family Relations	(4)
SSC 101	Introduction to Social Sciences	(4)
SW 201	Introduction to Social Welfare	(4)

F. Political and Historical Institutions

AG 101	Agriculture and the Modern World	(4)
HST 103	History of Civilization: The Modern World	(4)
HST 201	United States History	(4)
PLS 202	Comparative Political Systems	(4)
PLS 203	Introduction to International Relations	(4)

G. The Integrated Being (4 units)

ANT 201	Human Nature/Human Affairs: A Biocultural View	(4)
AVS 211	Drugs and Society	(4)
BIO 205	Biological Perspectives on Contemporary Life	(4)
HRT 255	The Healthy American Gastronome	(4)
KIN/FN 203	Health, Nutrition and the Integrated Being	(4)
KIN 207	Personal Health	(4)
PSY 201	General Psychology	(4)
PSY 210	Mind, Brain & Behavior: An Integrated View	(4)

AREA 4—U.S. History, Constitution, and American Ideals (8 units)

Students take two courses in this area. See also the Interdisciplinary General Education Program (IGE) section, which is the recommended pattern for most students in engineering and architecture.

PLS 201	Introduction to American Government	(4)
HST 202	United States History	(4)

AREA 5—Upper Division General Education (8 units)

Students must select two courses outside their major.

ABM 313	Food and Agricultural Policy	(4)
ABM 324	Management Accounting I	(4)
ABM 328	Agricultural Enterprise Management	(4)
ABM 402	Personnel Management	(4)
ABM/IA 450	Agricultural Water Resource Management	(4)
ANT 320	Indians of California	(4)
ANT 321	Indians of North America	(4)
ANT 355	Psychological Anthropology	(4)
ANT 358	Social Anthropology	(4)
ANT 399	Cultural Areas of the World: Africa	(4)
ANT 399	Cultural Areas of the World: Mesoamerica	(4)
ANT 399	Cultural Areas of the World: The Middle East	(4)
ANT 405	Women: An Anthropological View	(4)
ART 310	Art of the United States	(4)
ART 315	Art of the Ancient Near East	(4)
ART 316	Art of the Classical World	(4)
BHS 328	Women and Men: Changing Sex Roles	(4)
BIO 301	Human Sexuality	(4)
BIO 302	Biology of Cancer	(4)
BIO 303	Genetics	(4)
BOT 307	Plants and People	(4)
COM 314	Organizational Communication Theory	(4)
COM 321	Communications Problem Analysis	(4)
COM 327	Intercultural Communication	(4)
COM 337	Group Discussion	(4)
COM 413	Public Opinion, Propaganda and the Mass Media	(4)
EC 411	Economic Development	(4)
EC 419	Land Economics	(4)
EC 429	Seminar in Natural Resource Economics	(4)
EC 431	Regional Economic Analysis	(4)
EC 432	Seminar in Urban Economics	(4)
EC 433	Economics of Transportation	(4)
EC 434	Economics of Public Utilities	(4)
EC 435	Seminar in Environmental Economics	(4)
EC 436	Seminar in Air Resources Economics	(4)
EC 437	Seminar in the Economics of Poverty	(4)

EC 438	and Discrimination	(4)
EC 439	Seminar in Waste Management Economics	(4)
EC 440	Seminar in Water Resource Economics	(4)
EC 441	Industrial Organization	(4)
EGR 402	American Industry	(4)
EGR 403	Ethics and Engineering Decision-making	(4)
ENG 403	Capital Allocation Theory	(4)
ENG 450	Shakespeare	(4)
ENG 456	Twentieth-Century British Literature	(4)
ENG 459	Twentieth-Century American Literature	(4)
ENV 350	Literatures of the "Third World"	(4)
ENV 355	Diversity in Design	(4)
ENV 422	Community Exhibition and Performance Spaces	(4)
ENV 423	Designing for the Elderly and Disabled	(4)
ENV 450	Design for Children and Accessibility	(4)
ENV 489	Sustainable Communities	(4)
EWS 301	Community Design and Social Change	(4)
EWS 304	Ethnic Identity	(4)
EWS 345	Asian American Communities:	
EWS 350	Comparative Analysis	(4)
EWS 370	Gender, Ethnicity, and Employment	(4)
EWS 401	Ethnic Immigration	(4)
EWS 402	Women and Law	(4)
EWS 404	African American Contemporary Issues	(4)
EWS 407	Chicano/Latino Contemporary Issues	(4)
EWS 420	Asian American Contemporary Issues	(4)
EWS 430	Sexual Orientation and Diversity	(4)
GEO 312	Gender, Ethnicity, and Class	(4)
GEO 315	Ethnic Thought and Values	(4)
GEO 351	Economic Geography	(4)
GEO 353	Urban Geography	(4)
GEO 357	Geography of California	(4)
GEO 358	Russia: Environment and People	(4)
GSC 304	Geography of Asia	(4)
GSC 321/321L	Geography of Africa	(4)
GSC 335	Meteorology	(4)
GSC 360/360L	Geotechnology	(4)
HST 305	Descriptive Physical Oceanography	(4)
HST 306	Groundwater Geology	(4)
HST 307	Ancient and Medieval India	(4)
HST 309	Modern India	(4)
HST 313	South Asia	(4)
HST 314	Modern Southeast Asia	(4)
HST 315	Middle East: The Rise of Islam	(4)
HST 323	Islamic History in the Middle Ages	(4)
HST 324	Middle East: Problems of the 20th Century	(4)
HST 325	Enlightenment, Absolutism, and Constitutionalism	
HST 326	1648-1789	(4)
HST 327	Revolution and Reaction 1789-1850	(4)
HST 332	Nationalism, Imperialism, and	
HST 335	Industrialization 1850-1914	(4)
HST 336	Europe 1900-1945: World Wars and the	
HST 337	Crisis of Liberation	(4)
HST 341	Europe Since 1945: Cold War, Revival and New Era	(4)
HST 342	Colonial Africa	(4)
HST 343	Latin America: The Colonial Period	(4)
HST 344	Latin America: The Era of Nation Building	(4)
HST 345	Latin America: Problems of the 20th Century	(4)
HST 347	Colonial America	(4)
	American in the Federal Period	(4)
	The Age of Jackson	(4)
	Civil War and Reconstruction	(4)
	America Comes of Age 1890-1945	(4)
	United States since 1945	(4)

HST 351	England to 1689.....	(4)	PLS 328	American State and Local Politics	(4)
HST 356	The Soviet Union	(4)	PLS 323	American Ethnic Politics	(4)
HST 370	History of California.....	(4)	PLS 342	Politics of Developing Areas	(4)
HST 371	History of Southern California.....	(4)	PLS 431	Ancient and Medieval Political Thought	(4)
HST 374	The American West	(4)	PLS 432	Modern Political Thought	(4)
HST 375	The American Southwest	(4)	PLS 436	Twentieth-Century Political Thought.....	(4)
HST 406	Women in the United States	(4)	PLS 441	Comparative European Governments and Politics	
HST 413	Religion in American History.....	(4)	PLS 442	Comparative Sub-Saharan African Governments	
HSY 414	Diplomatic History of the United States	(4)		and Politics	(4)
HST 425	Great Britain in Industrial Revolution	(4)	PLS 444	Comparative Latin American Governments	
HST 441	Women in Asia	(4)		and Politics	(4)
IA 362	Agricultural Policy in Developing Nations	(4)	PLS 446	Comparative Middle Eastern Governments	
KIN 363	Psychological Aspects of Physical Activity			and Politics	(4)
	and Sport	(4)	PLS 447	Government and Politics of the Russian Republic ..	(4)
KIN 370	Stress Management for Healthy Living.....	(4)	PLS 448	Comparative East Asian Governments and Politics ..	(4)
KIN 450	Role of Sport in Contemporary Society	(4)	PLS 449	Comparative Southeast Asia Governments	
KIN 469	History of Women in Sport	(4)		and Politics	(4)
MAT 306	History of Mathematics	(4)	PLS 451	International Conflict, War and Peace	
MHR 301	Principles of Management	(4)	PSY 334	Cognitive Processes	(4)
MHR 318	Multicultural Organizational Behavior	(4)	PSY 455	Human Sexual Behavior: Relationships	(4)
MHR 324	Communication for Management	(4)	RS 301	Life Support Processes	(4)
MHR 352	Emerging Issues in Management	(4)	RS 302/302L	Global Regenerative Systems	(3/1)
MHR 406	Strategies for Men and Women in Management ..	(4)	RS 303/303L	Shaping a Sustainable Future	(2/2)
MHR 438	Advanced Organizational Behavior	(4)	SOC 301	Contemporary Social Problems	(4)
PHL 309	Moral Philosophy	(4)	SOC 302	Criminology	(4)
PHL 330	Ethics, Environment, and Society	(4)	SOC 321	Family as a Social Institution	(4)
PHL 401	Philosophy and Religion of Japan	(4)	SOC 350	Collective Behavior and Social Movements	(4)
PHL 402	Philosophy and Religion of China	(4)	SOC 360	Juvenile Delinquency	(4)
PHL 420	Philosophical Issues in the Law	(4)	SOC 430	Sociology of Mental Disorders	(4)
PHL 459	Epistemology	(4)	SOC 433	Survey Research	(4)
PHL 465	Philosophy of Love and Sex	(4)	SW/REC 324	Disabled Populations	(4)
PHL 483	Philosophy of Science.....	(4)	TH 301	Through the Artist's Eyes: Visions of World Artists	(4)
PHY 306	History of Physics	(4)	TH 410	20th Century American Theater.....	(4)
PHY 340	Energy and the Environment	(4)	TH 481	History of Costume	(4)
PHY 344	Applied Optics	(4)	URP 301	Principles of Urban Planning	(4)
PLS 315	Politics of Public Policy	(4)	URP 411	Evolution of Cities and Planning in America	(4)
PLS 318	Business and Public Policy	(4)	URP 475	Planning in a Global Economy.....	(4)

1997-98 General Education Requirements College of Engineering

	Area 1	Area 2		Area 3		Area 4	Area 5
ARO	ENG 104 (4) COM 204 (4) ENG 105 (4)	2a. <u>MAT 114 (4)</u> 2b. <u>PHY 131/151L (4)</u> 2c. <u>BIO 110 (3)</u> 2d. <u>MAT 317, 318 (3,3)</u>	3a. Elective* (4) 3b. <u>PHL 201 (4)</u> 3c. UD or LD Elective* (4)	3d. <u>EC 202 (4)</u> 3e. & 3f. <u>SOC/PLS 390 (4)</u>	3g. <u>PSY 201 (4)</u>	PLS 201 (4) HST 202 (4)	<u>ECE 353/355L (3/1)</u> <u>ECE 354/356L (3/1)</u>
CME	ENG 104 (4) COM 100 or COM 204 (4) ENG 105 or PHL 202(4)	2a. <u>MAT 114 (4)</u> 2b. <u>PHY 131/151L (4)</u> <u>CHM 121L, CHM 122L (1,1)</u> 2c. <u>BIO 110 (3)</u> 2d. <u>CHM 316 (3)</u>	3a. Elective* (4) 3b. Elective* (4) 3c. UD or LD Elective* (4)	3d. <u>EGR 403 (4)</u> 3e. & 3f. <u>SOC/PLS 390 (4)</u>	3g. Elective* (4)	PLS 201 (4) HST 202 (4)	<u>CHM 311, 312 (3,3)</u> <u>UD MTE Elect. (4)</u>
CE	ENG 104 (4) COM 204 (4) CE 361 (4)	2a. <u>MAT 114 (4)</u> 2b. <u>PHY 131/151L (4)</u> <u>PHY 152L, 153L (1,1)</u> 2c. <u>BIO 110 (3)</u> 2d. <u>IME 301 (3) or STA 309 (3)</u>	3a. Elective (4) 3b. Elective (4) 3c. UD or LD Elective (4)	3d. <u>CE 301 (4)</u> 3e. & 3f. <u>SOC/PLS 390 (4)</u>	3g. <u>PSY 201 (4)†</u>	PLS 201 (4) HST 202 (4)	<u>GSC 321 (4)</u> <u>MHR 318* (4)</u>
ECE	ENG 104 (4) COM 204 (4) ECE 311 (4)	2a. <u>MAT 114 (4)</u> 2b. <u>PHY 131/151L (4)</u> <u>PHY 152L (1)</u> 2c. <u>BIO 110 (3)</u> 2d. <u>ECE 302 (4)</u>	3a. Elective* (4) 3b. Elective* (4) 3c. UD or LD Elective* (4)	3d. <u>EC 201 or EC 202 (4)</u> 3e. & 3f. <u>SOC/PLS 390 (4)</u>	3g. Elective* (4)	PLS 201 (4) HST 202 (4)	<u>EGR 402 (4)</u> <u>EGR 403 (4)</u>
ET	ENG 104 (4) COM 204 (4) ENG 105 or PHL 202 (4)	2a. <u>MAT 130 (4)</u> 2b. <u>PHY 121/141L (4)</u> <u>PHY 142L, 143L (1,1)</u> 2c. <u>BIO 110 (3)</u> 2d. <u>STA 309 (3)</u>	3a. Elective* (4) 3b. Elective* (4) 3c. UD or LD Elective* (4)	3d. <u>EC 201 or EC 202 (4)</u> 3e. & 3f. <u>SOC/PLS 390 (4)</u>	3g. <u>PSY 201 (4)†</u>	PLS 201 (4) HST 202 (4)	<u>ETT 305 or ETC 301 (4)</u> <u>EGR 402 or MHR 318* (4)</u>
IE and MFE	ENG 104 (4) COM 204 (4) ENG 105 or PHL 202 (4)	2a. <u>MAT 114 (4)</u> 2b. <u>PHY 131/151L (4)</u> <u>PHY 152L, 153L (1,1)</u> 2c. <u>BIO 110 (3)</u> 2d. <u>IME 301 (3) or STA 309 (3)</u>	3a. Elective* (4) 3b. Elective* (4) 3c. UD or LD Elective* (4)	3d. <u>EC 201 or EC 202 (4)</u> 3e. & 3f. <u>SOC/PLS 390 (4)</u>	3g. Elective* (4)	PLS 201 (4) HST 202 (4)	<u>EGR 402 (4)</u> <u>EGR 403 (4)</u>
ME	ENG 104 (4) COM 204 (4) ME 231 (4)	2a. <u>MAT 114 (4)</u> 2b. <u>CHM 121/121L (3/1)</u> <u>CHM 152L (1)</u> 2c. <u>BIO 110 (3)</u> 2d. <u>ME 330 (4)</u>	3a. Elective* (4) 3b. Elective* (4) 3c. UD or LD Elective* (4)	3d. <u>EC 201 or EC 202 (4)</u> 3e. & 3f. <u>SOC/PLS 390 (4)</u>	3g. Elective* (4)	PLS 201 (4) HST 202 (4)	<u>EGR 403 (4)</u> <u>ECE 333/383L (4)</u>
MTE	ENG 104 (4) COM 100 or COM 204 (4) ENG 105 or PHL 202(4)	2a. <u>MAT 114 (4)</u> 2b. <u>PHY 131/151L (4)</u> <u>CHM 121L (1)</u> 2c. <u>BIO 110 (3)</u> 2d. <u>CHM 305 (3)</u>	3a. Elective* (4) 3b. Elective* (4) 3c. UD or LD Elective* (4)	3d. <u>EC 201 or EC 202 (4)</u> 3e. & 3f. <u>SOC/PLS 390 (4)</u>	3g. Elective* (4)	PLS 201 (4) HST 202 (4)	<u>EGR 403 (4)</u> <u>UD BUS Elect. (4)</u>

• All programs in the College of Engineering are nationally accredited by the Accreditation Board for Engineering and Technology (ABET) and engineering curricula are required to satisfy both ABET national requirements and, concurrently, CSU general education requirements. In order to achieve this, underlined courses double-count in satisfying both major and general education requirements. All coursework can be satisfied through course substitution via a General Academic Petition, or via articulation as appropriate. All non-underlined coursework can, in addition, be satisfied via GE certification from a community college. • Because of ABET requirements in the life sciences, degree credit for any course other than BIO 110 (Area 2c) requires a General Academic Petition. • (*) denotes a course that could be used to satisfy the Cal Poly Pomona requirement in American Cultural Perspectives. • † indicates that PSY 201 is a prerequisite for MHR 318 in Area 5.

THE FOLLOWING MINOR PROGRAMS WILL SATISFY GENERAL EDUCATION UPPER DIVISION REQUIREMENT

Artificial Intelligence
 Computer Systems Organization
 Regenerative Studies
 Scientific Computer Programming

INTERDISCIPLINARY GENERAL EDUCATION (IGE) PROGRAM (32 units)

The Interdisciplinary General Education Program addressed the need for an integrated approach to curriculum, teaching, and scholarship and the creation of an extended learning community. As of July, 1994, the IGE Program is a part of the new School of Education and Integrative Studies, which shares these goals.

The IGE program is open to any department wishing to adopt it as an option and is the preferred pattern for students in engineering and architecture. It is recommended to all other students in the Colleges of Agriculture, Business Administration, Environmental Design, and Science. It is also available to Humanities majors in the English and Foreign Languages Department, to Liberal Studies students in the Liberal Studies Option and to philosophy majors, College of Letters, Arts, and Social Sciences. See departmental advisors or the Program Director.

The eight course sequence has the following common goals:

Learning Outcomes

1. Communication skills and critical thinking.
2. Development of historical social consciousness.
3. Multicultural understanding.
4. Understanding and appreciation of aesthetic experiences.
5. Understanding and articulation of values.
6. Independent integration of knowledge and experience through active student learning.

Please refer to University Programs section in this catalog for IGE course descriptions.

FIRST YEAR

IGE 120	Consciousness and Community: Origins and Development of Human Societies	(4)
IGE 121	Rationalism and Revelation: The Ancient World	(4)
IGE 122	Authority and Faith: Feudalism and the Renaissance	(4)

SECOND YEAR

IGE 220	Culture and Contact: The Expansion of the West	(4)
IGE 221	Reform and Revolution: The Age of Enlightenment	(4)
IGE 222	Individualism and Collectivism, Competing Ideologies: The Industrial Age.	(4)

THIRD YEAR

IGE 223	Promise and Crisis: The Modern World	(4)
IGE 224	Connections Seminar: Exploration and Personal Expression	(4)

HOW INTERDISCIPLINARY GE PROGRAM MEETS UNIVERSITY REQUIREMENTS

This 32 unit program meets the following portion of the University General Education requirements under Track B. (Engineering students should see adviser for specific additional coursework required by major.)

AREA 1 COMMUNICATION IN THE ENGLISH LANGUAGE

ENG 104 ("a") satisfied at the end of the first year (after taking IGE 120, IGE 121, IGE 122); "b" and "c" not satisfied. Select from regular GE list.

AREA 2 SCIENCE AND MATHEMATICS

Not satisfied. Select courses from regular GE list as specified by major.

AREA 3 ARTS, LITERATURE, PHILOSOPHY AND FOREIGN LANGUAGES

Any two courses (8 units) from "a" or "b" or "c" satisfied at the end of the first year with the completion of IGE 120, IGE 121, and IGE 122. Take the remaining four-unit course from the regular list. (Example: If "b" and "c" are replaced by IGE courses, then take "a" from the regular list, and so on.) The student may choose which two courses to replace by IGE courses.

"e" and "f" are satisfied (8 units) at the end of the second year with the completion of IGE 220, IGE 221, and IGE 222. Choose "d" from the regular GE list.

"g" is satisfied (4 units) at the end of the IGE sequence (IGE 224).

AREA 4 U.S. HISTORY, CONSTITUTION, AND AMERICAN IDEALS

Satisfied (8 units) at the end of the IGE sequence (IGE 224)

AREA 5 UPPER DIVISION GENERAL EDUCATION

Not included in IGE. Choose from regular upper division course list.

AMERICAN CULTURAL PERSPECTIVES REQUIREMENT

The American Cultural Perspectives Requirement is a graduation requirement. Courses satisfying this requirement may be part of either a student's General Education program, major, or minor. These courses may also be taken as electives. This requirement will not constitute an additional unit load on the degree requirements of students in any program. This requirement was implemented fall quarter, 1995.

To satisfy this requirement a student must take at least one four-unit course. Courses that meet the American Cultural Perspectives Requirement should satisfy all of the following criteria:

Introduce theoretical perspectives and nonwestern/nontraditional approaches for studying gender, ethnicity, and class.

Include the study of at least one other marker of social difference, such as sexual orientation, religious affiliation, national origin, etc.

Include substantive materials (books/films/lectures/articles/etc.) by and/or about members of at least two of the following socio-cultural groups: African Americans, Native Americans, Chicano/Latino Americans, Asian Americans, Pacific Islands Americans, Middle Eastern Americans, and European/white ethnic Americans.

Address intra-cultural differences as well as inter-cultural commonalities between groups that collectively represent the American population. The commonalities and differences may be examined by focusing on diverse cultural practices, environmental ethics, political histories, religious beliefs, or means of artistic expression.

The following courses have been approved to satisfy this requirement:

ANT 102	Introduction to Cultural Anthropology	4
ANT 333	Varieties of American Culture	4
ART 310	Art of the United States	4
ENG 212	Survey of American Literature II	4
ENG 213	Ethnic Literatures of the U.S.	4
ENG 459	Literatures of the Third World.	4
ENV 355	Community Exhibition and Performance Spaces	4

ENV 422	Designing for the Elderly and Disabled	4
ENV 423	Design for Children and Accessibility	4
ENV 489	Community Design and Social Change	4
EWS 140	Introduction to Ethnic Studies	4
EWS 145	Introduction to the Study of Women and Men in Society .	4
EWS 390	Ethnic Women.	4
EWS 420	Gender, Ethnicity, and Class	4
EWS 430	Ethnic Thought and Values	4
FN 228	Food and Culture	4
FNC 101	Introduction to Family Issues.	4
HST 202	United States History	4
HST 345	America Comes of Age, 1890-1945	4

HST 347	The U. S. Since 1945.	4
MHR 318	Organizational Behavior in a Multicultural Environment .	4
KIN 450	Role of Sport in Contemporary Society	4
KIN 469	History of Women in Sport	4
PHL 307	American Indian Thought and Religion	4
PLS 323	American Ethnic Politics	4
SOC 323	Sociology of Minority Communities.	4
URP 411	Evolution of Cities and Planning in America	4

Students should consult with their departments or academic advisors for any other courses that might be approved during the 1996-97 academic year to satisfy this requirement.