

## GENERAL EDUCATION

	UNIT TOTAL
<p><b>Area A. Communication and Critical Thinking (12 units)</b>            One course from each sub-area:            1. Written Communication            2. Oral Communication            3. Critical Thinking</p>	12
<p><b>Area B. Mathematics and Natural Sciences (16 units)</b>            At least one course from each sub-area, including at least one lab course from sub-area 2 or 3.            1. Mathematics/Quantitative Reasoning            2. Physical Science            3. Biological Science            4. Science and Technology Synthesis (upper division)*</p>	16
<p><b>Area C. Humanities (16 units)</b>            At least one course from each sub-area.            1. Fine and Performing Arts            2. Philosophy and Civilization            3. Literature and Foreign Language            4. Humanities Synthesis (upper division)*</p>	16
<p><b>Area D. Social Sciences (20 units)</b>            Two courses in sub-area 1, and at least one course from each of sub-areas 2, 3, and 4.            1. U.S. History, Constitution, American Ideals            2. History, Economics, and Political Science            3. Sociology, Anthropology, Ethnic, and Gender Studies            4. Social Science Synthesis (upper division)*</p>	20
<p><b>Area E. Lifelong Understanding and Self-Development (4 units)</b></p>	4

## NOTES:

\*May be replaced by approved upper-division **Interdisciplinary Synthesis** courses.

### INTERDISCIPLINARY GENERAL EDUCATION PROGRAM (IGE) (32 units)

#### FIRST YEAR

- IGE 120 Consciousness and Community (4)
- IGE 121 Rationalism and Revelation: Ancient World (4)
- IGE 122 Authority and Faith: The Medieval and Renaissance Worlds (4)

#### SECOND YEAR

- IGE 220 Ways of Knowing: Culture and Contact (4)
- IGE 221 Ways of Coexisting: Reform and Revolution (4)
- IGE 222 Ways of Doing: The Industrial Age (4)

#### THIRD YEAR

- IGE 223 Ways of Living: The Contemporary World (4)
- IGE 224 Connections Seminar: Exploration and Personal Expression (4)

IGE students will take additional courses from the current approved GE list to complete the total units required.

**General Education–Unit Distribution**

The General Education Program at California State Polytechnic University, Pomona shall be organized into the following distribution areas. All students must adhere to the new GE program and the new upper division synthesis courses.

**Area A. Communication and Critical Thinking (12 units)**

One course from each sub-area:

1. Written Communication
2. Oral Communication
3. Critical Thinking

**Area B. Mathematics and Natural Sciences (16 units)**

At least one course from each sub-area, including at least one lab course from sub-area 2 or 3.

1. Mathematics/Quantitative Reasoning
2. Physical Science
3. Biological Science
4. Science and Technology Synthesis (upper division)

**Area C. Humanities (16 units)**

At least one course from each sub-area.

1. Fine and Performing Arts
2. Philosophy and Civilization
3. Literature and Foreign Language
4. Humanities Synthesis (upper division)

**Area D. Social Sciences (20 units)**

Two courses in sub-area 1, and at least one course from each of sub-areas 2, 3, and 4.

1. U.S. History, Constitution, American Ideals
2. History, Economics, and Political Science
3. Sociology, Anthropology, Ethnic, and Gender Studies
4. Social Science Synthesis (upper division)

**Area E. Lifelong Understanding and Self-Development (4 units)****Interdisciplinary Synthesis Courses**

These courses will integrate two or more of the Areas B, C, and D and can be used to satisfy the requirement in any one of the GE areas. Students must complete all lower-division courses in Area A and at least two sub-areas from the areas being integrated by an interdisciplinary synthesis course.

It is understood that any student completing this course must also complete two other synthesis courses so that the three synthesis areas of Humanities, Social Sciences, and Mathematics and Natural Sciences are covered.

**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. 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. Special Topics courses (those numbered 499) are not eligible for GE credit. Students should consult with their departmental degree advisors. Undeclared students should consult with the staff of the University Advising Centers.

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 (IGE) Program offers undergraduates an integrated approach to fulfilling their lower-division general education requirements. IGE is one of the longest-lived interdisciplinary programs in the California State University and has received national recognition for its work in general education, team-teaching and learning communities.

IGE provides a community with a large university. Students work and study together over an eight-course sequence fulfilling 32 units of humanities and social sciences general education. Many courses are team-taught by faculty from complementary fields, providing students with an introduction to the complexities of different academic disciplines as well as exposure to a variety of teaching styles. The IGE Arts Package offers a set of theater, music, and other experiences that augment the curriculum and build the community.

IGE satisfies area E and major portions of areas A, C and D of the lower division general education requirements. IGE is open to any student or department wishing to adopt it as an option, and is the preferred program for engineering, architecture and liberal studies majors. Applicants must be exempt from or receive a score of 151 or greater on the English Placement Test (EPT). For more information, contact the IGE Program Director or departmental advisors.

**Transfer and Change of Major Students and General Education Certification**

Community college transfer students and Cal Poly Pomona students who change their major should be aware that 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. Therefore, even if 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, they may need to take additional courses to satisfy prerequisites for the major. 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**

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 (+) indicates that a course may be taken on a credit/no credit basis. Please refer to the corresponding major section in this catalog for prerequisites and a detailed description of general education courses listed below.

**AREA A-Communication and Critical Thinking (12 units)**

Students must take one course from each sub-area.

1. 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.)
2. Oral Communication
  - Public Speaking . . . . . COM 100 (4)
  - Advocacy and Argument . . . . . COM 204 (4)
3. Critical Thinking
  - Freshman English II . . . . . ENG 105 (4)
  - Critical Thinking . . . . . PHL 202 (4)

**AREA B-Mathematics and Natural Science (16 units)**

Students must take at least one course from each sub-area. At least one laboratory course from sub-areas 2 or 3 is also required. Laboratory classes are marked with an "L" following the course number. Students must meet both ELM and MDPT course prerequisites before enrolling in any mathematics or statistics course.

**1. Mathematics/Quantitative Reasoning**

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

- 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 III . . . . . (4)
- MAT 120 Calculus for the Life Sciences . . . . . (4)
- MAT 125 Introductory Calculus for Business . . . . . (4)
- MAT 130 Technical Calculus . . . . . (4)
- MAT 137 Survey of Geometry . . . . . (4)
- MAT 191 Survey of Mathematics . . . . . (4)
- STA 120 Statistics with Applications . . . . . (4)

**2. Physical Science**

- CHM 101/101L Consumer Chemistry . . . . . (4)
- 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 The Earth Revealed . . . . . (4)
- +GSC 111 Principles of Geology . . . . . (4)
- +GSC 112 Earth, Time, and Life . . . . . (3)
- +GSC 116 Astronomy of the Universe . . . . . (4)
- +GSC 120 Introduction to Oceanography . . . . . (4)
- +GSC 141L Principles of Geology Laboratory . . . . . (1)
- +GSC 151L Earth, Time, and Life Laboratory . . . . . (1)
- +PHY 102 Fundamentals of Physics . . . . . (4)
- PHY 104L Conceptual Physics Laboratory . . . . . (1)
- 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 121L College Physics Laboratory . . . . . (1)
- PHY 131L General Physics Laboratory . . . . . (1)

**3. Biological Sciences**

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

**4. Science and Technology Synthesis (upper division)**

Students must complete all GE lower-division requirements in Areas A and B before they take any B4 synthesis course. Select one 4-unit course (or two 2-unit courses) from the following list or see the quarterly Schedule of Classes for approved courses:

- AG/BUS/EGR/SCI 481 Project Design Principles and Applications . . . . . (2)
- AG/BUS/EGR/SCI 482 Project Design Principles and Applications . . . . . (2)
- AG/EGR/SCI 484 Science and Technology Seminar . . . . . (4)
- AGB 300 Insects and Civilization . . . . . (4)
- AGR 311 Plants and Civilization . . . . . (4)
- \*ANT 350 Environment, Technology and Culture . . . . . (4)
- ANT 491 Forensic Anthropology . . . . . (4)
- AVS 311 The Animal Industry and Society . . . . . (4)
- BIO 300 Genetics and Human Issues . . . . . (4)
- BIO 301 Human Sexuality . . . . . (4)
- BIO 304 Environment and Society . . . . . (4)
- BIO 309 Biology of the Brain . . . . . (4)
- BIO 311 Sexually Transmitted Diseases: Current Issues . . . . . (4)
- BIO 330/330L Marine Biology . . . . . (4)
- BIO 340 Biodiversity Conservation . . . . . (4)
- BOT 307/307A Plants and People . . . . . (4)
- CE 314 Elements of Spatial Positioning/Laboratory . . . . . (4)
- \*EGR 402 Ethical Considerations in Technology and Applied Science . . . . . (4)
- \*EGR/BUS 403 Asset Allocation in Technical Decision Making . . . . . (4)
- \*EGR/EIS/SCI 475 Beyond Curie: The Impact of Women in Mathematics, Science & Technology . . . . . (4)
- \*EWS 425 Gender, Identity & Technology . . . . . (4)
- FN 305 Nutrition, Science and Health . . . . . (4)
- \*FN/IA 445 Agriculture, Nutrition, and International Development . . . . . (4)
- GEO 303 Climatology . . . . . (4)
- GSC 304 Meteorology . . . . . (4)
- GSC 315 California's Geologic Heritage . . . . . (4)
- GSC 320 Studies of a Blue Planet . . . . . (4)
- GSC 321/321L Engineering Geology . . . . . (4)
- GSC 335 Exploring the Oceans: Oceanography . . . . . (4)
- GSC 350 Natural Disasters . . . . . (4)
- KIN 301 Foundations of Exercise Science . . . . . (4)
- KIN 365 Science of Physical Aging . . . . . (4)
- \*KIN 370 Stress Management . . . . . (4)
- MIC 301 Germs & You . . . . . (4)
- \*MU 310 History of Technology in Music . . . . . (4)
- PHL 483 Philosophy of Science . . . . . (4)
- PHY 301 Energy & Society . . . . . (4)
- PHY 302 Physics of Everyday Experience . . . . . (4)
- PHY 303 The Universe in 10 Weeks . . . . . (4)
- PHY 306 History of Physics . . . . . (4)
- RS 301 Life Support Processes . . . . . (4)

\*These interdisciplinary courses fulfill units in only one subarea (B4, C4, or D4) as approved.

**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 C-Humanities (16 units)**

Students are required to take at least one course from each sub-area. A minimum of 16 units must be completed. See also the Interdisciplinary General Education Program (IGE) Section, which is the pattern recommended for students in Engineering and Architecture.

**1. 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)
COM 280 Understanding and Appreciating the Photographic Image . . . . .	(4)
DAN 202 World Dance and Cultures . . . . .	(4)
ENV 112 Design and the Built Environment . . . . .	(4)
ENV 115/115A History of Art and Design . . . . .	(4)
HOR 214 History of Garden Art . . . . .	(4)
MU 100 Introduction to Music . . . . .	(4)
MU 101 Music Appreciation . . . . .	(4)
MU 103 World of Music . . . . .	(4)
TH 125/125A Introduction to Acting . . . . .	(4)
TH 203 Introduction to the Theater . . . . .	(4)
TH 204 Live Theater Appreciation . . . . .	(4)
TH 205 World Theater A Cross-Cultural Perspective . . . . .	(4)
TH 208 Introduction to Film and American Culture . . . . .	(4)
TH 210 Introduction to the American Theater . . . . .	(4)
URP 104 Evolution of Cities . . . . .	(4)

**2. Philosophy and Civilization**

ANT 112/112A World Cultures via the World Wide Web . . . . .	(4)
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 and 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 206 Philosophy Through Children’s Literature . . . . .	(4)
PHL 220 Religions of the World . . . . .	(4)
PHL 221 Introduction to Religious Studies . . . . .	(4)

**3. 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 131 Elementary Latin I . . . . .	(4)
FL 132 Elementary Latin II . . . . .	(4)
FL 133 Elementary Latin III . . . . .	(4)
FL 151 Elementary Spanish I . . . . .	(4)
FL 152 Elementary Spanish II . . . . .	(4)
FL 153 Elementary Spanish III . . . . .	(4)
FL 154 Spanish for Spanish Speakers I . . . . .	(4)
FL 161 Elementary Japanese I . . . . .	(4)
FL 162 Elementary Japanese II . . . . .	(4)
FL 163 Elementary Japanese III . . . . .	(4)
FL 171 Elementary Chinese I . . . . .	(4)
FL 172 Elementary Chinese II . . . . .	(4)
FL 173 Elementary Chinese 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)
FL213 Intermediate German Composition and Conversation . . . . .	(4)
FL 250 Spanish for Spanish Speakers II . . . . .	(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)

**4. Humanities Synthesis (upper division)**

Students must complete all GE lower-division requirements in Areas A and C before they take any C4 synthesis course. Select one course from the following list or see the quarterly Schedule of Classes for approved courses:

*EC 417 Socioeconomics of War and Peace . . . . .	(4)
*EGR 402 Ethical Considerations in Technology and Applied Science . . . . .	(4)
*ENV 450 Sustainable Communities . . . . .	(4)
*ENV 489 Community Design and Social Change . . . . .	(4)
EWS 375 Gender, Ethnicity, and Film . . . . .	(4)
*EWS 450 Multiracial and Hybrid Identities . . . . .	(4)
HST 362 Mexico to 1810 . . . . .	(4)
HST 370 History of California . . . . .	(4)
HST 413 Religion in American Society . . . . .	(4)
*HST 406 Women in the United States . . . . .	(4)
*HST 421 The Scientific Revolution . . . . .	(4)
IGE 320 Visions of Science and Technology . . . . .	(4)
*MU 310 History of Technology in Music . . . . .	(4)
MU 425 Life and Death in the Arts . . . . .	(4)
PHL 340 Current Debates About Sexuality . . . . .	(4)
TH 301 Through Artists’ Eyes . . . . .	(4)
TH 410 Theatrical Pursuit of an American Ideology . . . . .	(4)
URP 302 Understanding Rationality through Urban Planning . . . . .	(4)

\*These interdisciplinary courses fulfill units in only one subarea (B4, C4, or D4) as approved.

**Area D. Social Sciences (20 units)**

Students must take two courses in sub-area 1, and at least one course from each of sub-areas 2, 3, and 4. See also the Interdisciplinary General Education Program (IGE) section, which is the recommended pattern for most students in engineering and architecture.

**1. U.S. History, Constitution, and American Ideals (8 units)**

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

**2. History, Economics, and Political Science**

AG 101 Agriculture and the Modern World . . . . .	(4)
EC 201 Principles of Economics . . . . .	(4)
EC 202 Principles of Economics . . . . .	(4)
FNC 245 Consumerism: The Movement, Its Impact and Issues . . . . .	(4)
FRL 100 Personal Money Management . . . . .	(4)
HST 103 History of Civilization: The Modern World . . . . .	(4)
HST 201 United States History . . . . .	(4)
IA 101 Global Resources for Food . . . . .	(4)
IBM 201 Consumer Survival Skills . . . . .	(4)
PLS 202 Comparative Political Systems . . . . .	(4)
PLS 203 Introduction to International Relations . . . . .	(4)
TOM 103 Business and Its Environment . . . . .	(4)

**3. Sociology, Anthropology, Ethnic and Gender Studies**

AMM 108 Culture, People and Dress . . . . .	(4)
ANT 102 Introduction to Cultural Anthropology . . . . .	(4)
COM 270 Media, Politics, Sex, and Violence . . . . .	(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)
FRL 101 Law for Everyday Living . . . . .	(4)
GEO 102 Cultural Geography . . . . .	(4)
KIN 449 Play, Games, and Sport . . . . .	(4)
SOC 201 Principles of Sociology . . . . .	(4)
SOC 206 Family Relations . . . . .	(4)
SSC 101 Introduction to Social Sciences . . . . .	(4)
SW 300 Survey of Social Welfare . . . . .	(4)

**4. Social Science Synthesis (upper division)**

Students must complete all GE lower-division requirements in Areas A and D before they take any D4 synthesis course. Select one course from the following list or see the quarterly Schedule of Classes for approved courses:

*ANT 350 Environment, Technology and Culture . . . . .	(4)
ANT 379 Cultural Areas of the World . . . . .	(4)
COM 413 Public Opinion, Propaganda and Mass Media . . . . .	(4)
COM 423 Political Economy of Mass Communication . . . . .	(4)
*EC 417 Socioeconomics of War and Peace . . . . .	(4)
EC/PLS 420 Politics of Greed and Need . . . . .	(4)
*EGR/BUS 403 Asset Allocation in Technical Decision Making . . . . .	(4)
*EGR/EIS/SCI 475 Beyond Curie: The Impact of Women in Mathematics, Science and Technology . . . . .	(4)
*ENV 450 Sustainable Communities . . . . .	(4)
*ENV 489 Community Design and Social Change . . . . .	(4)
EWS 401 African American Contemporary Issues . . . . .	(4)
EWS 402 Chicano/Latino Contemporary Issues . . . . .	(4)

EWS 404 Asian American Contemporary Issues . . . . .	(4)
*EWS 425 Gender, Identity and Technology . . . . .	(4)
EWS 431 Ethnicity, Gender, and Religion . . . . .	(4)
*EWS 450 Multiracial and Hybrid Identities . . . . .	(4)
*FN/IA 445 Agriculture, Nutrition, and International Development . . . . .	(4)
HST 324 Europe 1789 to 1850: Revolution and Reaction . . . . .	(4)
HST 337 Latin America Since 1900 . . . . .	(4)
HST 351 Britain to 1689 . . . . .	(4)
HST 352 Britain Since 1689 . . . . .	(4)
*HST 406 Women in the United States . . . . .	(4)
*HST 421 The Scientific Revolution . . . . .	(4)
*KIN 370 Stress Management . . . . .	(4)
*MU 310 History of Technology in Music . . . . .	(4)
RS 302 Global Regenerative Systems . . . . .	(4)
SSC 491 Major Social Science Themes . . . . .	(4)
URP 475 Cities in a Global Economy . . . . .	(4)

\*These interdisciplinary courses fulfill units in only one subarea (B4, C4, or D4) as approved.

**Area E. Lifelong Understanding and Self-Development (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 Gastronomer . . . . .	(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, and Behavior: An Integrated View . . . . .	(4)

**Interdisciplinary Synthesis Courses**

These courses will satisfy the requirement in one of subareas: B4, C, D4. Students must complete all lower-division courses in Area A and relevant subareas before they take an Interdisciplinary Synthesis course.

Select one course from the following list or see the quarterly Schedule of Classes for approved courses:

*ANT 350 Environment, Technology and Culture (fulfills Area B4 or D4) . . . . .	(4)
EC 417 Socioeconomics of War and Peace (fulfills Area C4 or D4) . . . . .	(4)
EGR 402 Ethical Considerations in Technology and Applied Science (fulfills Area B4 or C4) . . . . .	(4)
EGR/BUS 403 Asset Allocation in Technical Decision Making (fulfills Area B4 or D4) . . . . .	(4)
EGR/EIS/SCI 475 Beyond Curie: The Impact of Women in Mathematics, Science and Technology (fulfills Area B4 or D4) . . . . .	(4)
ENV 450 Sustainable Communities (fulfills Area C4 or D4) . . . . .	(4)
ENV 489 Community Design and Social Change (fulfills Area C4 or D4) . . . . .	(4)
EWS 425 Gender, Identity and Technology (fulfills Area B4 or D4) . . . . .	(4)
EWS 450 Multiracial and Hybrid Identities (fulfills Area C4 or D4) . . . . .	(4)
FN/IA 445 Agriculture, Nutrition, and International Development (fulfills Area B4 or D4) . . . . .	(4)
HST 406 Women in the United States (fulfills Area C4 or D4) . . . . .	(4)
HST 421 The Scientific Revolution (fulfills Area C4 or D4) . . . . .	(4)
KIN 370 Stress Management (fulfills Area B4 or D4) . . . . .	(4)
MU 310 History of Technology in Music (fulfills Area B4, C4, or D4) . . . . .	(4)

**INTERDISCIPLINARY GENERAL EDUCATION (IGE) PROGRAM (32 units)**

The Interdisciplinary General Education Program provides an integrated approach to learning about literature, humanities, social sciences, and the arts. IGE is an alternative to the traditional university general education pattern. Students must be exempt from or score at least 151 on the EPT to qualify for admission to the IGE program.

The IGE program is open to any qualified student or undergraduate department wishing to adopt it as an option, and is the recommended pattern for Engineering, Architecture, and Liberal Studies majors. Students may substitute AP credit for up to 2 courses in the IGE Program. For more information, see departmental advisors or the IGE 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 the University Programs section in this catalog for IGE course descriptions.

#### FIRST YEAR

- IGE 120 Consciousness and Community . . . . . (4)  
 IGE 121 Rationalism and Revelation: The Ancient World . . . . . (4)  
 IGE 122 Authority and Faith: The Medieval and Renaissance Worlds. . (4)

#### SECOND YEAR

- IGE 220 Ways of Knowing: Culture and Contact . . . . . (4)  
 IGE 221 Ways of Coexisting: Reform and Revolution . . . . . (4)  
 IGE 222 Ways of Doing: The Industrial Age . . . . . (4)

#### THIRD YEAR

- IGE 223 Ways of Living: The Contemporary World . . . . . (4)  
 IGE 224 Connections Seminar: Exploration and Personal Expression . . (4)

#### HOW THE IGE PROGRAM MEETS UNIVERSITY REQUIREMENTS

Engineering students should see an advisor for specific additional coursework required by major.

#### AREA A Communication and Critical Thinking

ENG 104 (A1) satisfied upon completion of the first-year sequence (IGE 120, IGE 121, and IGE 122). Select from the new GE list to satisfy A2 and A3.

#### AREA B Mathematics and Natural Science

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

#### AREA C Humanities

Any two courses (8 units) from the new GE sub-areas C1, C2, or C3 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 new GE list. (Example: If "2" and "3" are replaced by IGE courses, then take "1" from the regular list, and so on.) Select from the new GE list to satisfy C4.

#### AREA D SOCIAL SCIENCES

D1 (8 units) and D3 satisfied upon completion of the second-year sequence (IGE 220, 221, 222); D2 satisfied upon completion of the IGE Program. To satisfy D4, choose from the new GE list.

#### AREA E LIFELONG LEARNING

Area E is satisfied upon completion of the IGE Program.

The university's American Cultural Perspectives requirement is satisfied upon completion of the second-year sequence (IGE 220, IGE 221, and IGE 222).

#### INTERDISCIPLINARY SCIENCE GENERAL EDUCATION PROGRAM (ISGE)

Pending final approval by the Academic Senate and the University President, this program is intended to satisfy university general education science requirements in Area B. Upon completion of three courses totaling 16 units, students would satisfy Areas B1, B2, B3 and B4. The ISGE program is a continuous, one-year set of three courses, open to all non-science and non-engineering majors.

ISGE is an innovative approach to teaching science to nonscientists using natural systems processes as interdisciplinary, integrative themes. In this course series, students learn the key similarities between many dozens of specific case studies in astronomy, physics, chemistry, geology, biology, computer science, and mathematics, as well as numerous bridges between the natural and human sciences. Students achieve an understanding of the world as one, not as a kaleidoscope of fragmented specialties.

Students have the convenience of using CD-ROM or Internet lessons at home or in university computer labs for a considerable portion of their learning. Two face-to-face discussion, skill-training sessions per week balance the technology-based materials. There are no prerequisites for the ISGE series; the upper division course must be taken after the lower-division work is complete.

#### 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  
 KIN 450 Role of Sport in Contemporary Society . . . . . 4  
 KIN 469 History of Women in Sport . . . . . 4  
 MHR 318 Organizational Behavior in a Multicultural Environment . . 4  
 PHL 307 American Indian Thought and Religion . . . . . 4  
 PLS 323 American Ethnic Politics . . . . . 4  
 SOC 323 Sociology of Minority Communities. . . . . 4  
 URP 332/332L Applied Demography for Planning . . . . . 4  
 URP 411 Evolution of Cities and Planning in America . . . . . 4



