

Note: Up to 4 units of credit/no credit grading may be selected for courses in Major, Support, or Concentration.

MAJOR COURSES		
LS 201	Orientation to Liberal Studies	1
LS 211	Visual Arts in the Elementary Classroom	4
LS 214	Constitutional Issues/Hist of U.S. & Calif Educ	4
LS 230	Field Experience in the Elementary Classroom I	2
LS 250	Field Experience in the Elementary Classroom II	2
LS/ENGL 255	Children's Literature in a Diverse Society (Lower-Division C Elective) ¹	4
LS 301	Liberal Studies Career Preparation	1
LS 310	Storytelling: Modern Applications of Traditional Narrative	4
LS 370	Performing Arts in the Elementary Classroom	4
LS 411	Advanced History/Social Sciences Integration for the K-8 Classroom	4
or LS 412	Advanced Arts Integration for the K-8 Classroom	
or LS 413	Advanced Science/Engineering Integration for the K-8 Classroom	
LS 461	Senior Project Seminar	4
or LS 462	Senior Project Research	
ASTR 101	Introduction to the Solar System (B1) ¹	4
BIO 111	General Biology (B2 & B3) ¹	4
BIO 211	Biology of Plants and Animals	4
ENGL 391	Topics in Applied Linguistics	4
GEOG 308	Global Geography (Upper-Division D) ¹	4
HIST 201	United States History to 1865 (D1) ¹	4
HIST 208	Survey of California History (USCP)	4
HIST 210	World History I (D2) ^{1, 2}	4
KINE 310	Concepts and Applications in Elementary Physical Education	3
HLTH 443	Health Education for Teachers	4
MATH 227	Mathematics for Elementary Teaching I (B4) ¹	4
MATH 328	Mathematics for Elementary Teaching II	4
MATH 329	Mathematics for Elementary Teaching III	4
MATH 330	Algebraic Thinking with Technology	4
PHIL 230	Philosophical Classics: Knowledge & Reality (C2)	4
or PHIL 231	Philosophical Classics: Ethics & Political Phil	
PSC 101	Matter and Energy (GE Electives) ¹	4
PSC 102	Atoms and Molecules	4
PSC 103	The Physical Environment: Earth	4
PSY 201	General Psychology (E) ¹	4
or PSY 202	General Psychology	
STAT 130	Introduction to Statistical Reasoning ³	4
or STAT 217	Intro to Statistical Concepts and Methods	
Concentration, approved minor, or I.C.S.		18-22
Total Major Units		131-135

SUPPORT COURSES		
CD/EDUC 207	Children's Learning and Development in Educational Settings	4
EDUC 427	Theories, Methods, & Assessment of First & Second Language Acquisition in Schools ⁴	4
EDUC 428	Foundations of K-8 Literacy Teaching & Learning in Schools with Diverse Populations ⁴	4
Total Support Units		12

GENERAL EDUCATION		
Area A English Language Communication and Critical Thinking		
A1	Oral Communication	4
A2	Written Communication	4
A3	Critical Thinking	4
Area B Scientific Inquiry and Quantitative Reasoning		
B1	Physical Science (4 units in Major) ¹	0
B2	Life Science (4 units in Major) ¹	0
B3	One lab taken with either a B1 or B2 course	
B4	Math/Quantitative Reasoning (4 units in Major) ¹	0
Upper-Division B		4
Area C Arts and Humanities		
<i>Lower-division courses in Area C must come from three different subject prefixes.</i>		
C1	Arts ⁶	4
C2	Humanities (4 units in Major) ¹	0
Lower-Div C Elect (4 units in Major) ¹		0
Upper-Division C		4
Area D Social Sciences		
<i>Select courses in Area D from at least two different prefixes</i>		
D1	American Institutions (Title 5, Section 40404 Req) (4 units in Major) ¹	0
D2	Lower-Division D (4 units in Major) ¹	0
Upper-Division D (4 units in Major) ¹		0
Area E Lifelong Learning and Self-Development		
Lower-Division E (4 units in Major) ¹		0
Area F Ethnic Studies		
F	Ethnic Studies	4
GE Electives in Areas B, C, and D		
<i>Select from two different areas; may be lower- or upper-division crs.</i>		
GE Electives (4 units of Area B in major) ¹		0
GE Electives (C or D)		4
Total GE Units		32
FREE ELECTIVES ⁵		1-5
TOTAL DEGREE UNITS		180
FOOTNOTES		
¹ Required in Major or Support; also satisfies General Education (GE) requirement.		
² Students in the History/Social Sciences concentration, may substitute with HIST 221.		
³ Students considering a Child Development or Psychology minor should consider taking STAT 217.		
⁴ Prerequisite for Multiple Subject Credential program at Cal Poly. For a credential program elsewhere, check the prerequisites for that institution.		
⁵ If a General Education (GE) course is used to satisfy a Major or Support requirement, additional units of Free Electives may be needed to complete the total units required for the degree.		
⁶ Recommended courses to satisfy GE Area C1: MU 101, DANC 221, or TH 210 for individuals planning to pursue a teaching credential.		

English Concentration		
ENGL 311	Advanced Rhetorical Inquiry and Composing	4
or ENGL 312	Translingual Rhetorical Inquiry and Writing	
ENGL 361	Reading Instruction for the Teaching of Young Adult Literature	5
ENGL 368	Theory & Practice of Peer-to-Peer Writing Instr.	4-5
or ENGL 424	Teaching English in Secondary Schools	
Select from the following:		8
British Literature		
ENGL 330	British Literature: Beginnings to 1485	
ENGL 331	British Literature: 1485-1660	
ENGL 332	British Literature: 1660-1798	
ENGL 333	British Literature: 1798-1832	
ENGL 334	British Literature: 1832-1914	
ENGL 335	British Literature: 1914-Present	
ENGL 339	Introduction to Shakespeare	
American Literature		
ENGL 340	American Literature: Beginnings-1865	
ENGL 341	American Literature: 1865-1914	
ENGL 342	American Literature: 1914-1956	
ENGL 343	American Literature: 1956-Present	
ENGL 345	Women Writers of the 20th & 21st Cent. (USCP)	
ENGL 346	Ethnic American Literature (USCP)	
ENGL 347	African American Literature (USCP)	
Modern English		
ENGL 350	The Modern Novel	
ENGL 351	Modern Poetry	
ENGL 352	Modern Drama	
Total Units		21-22

Human Development Concentration		
Select from the following: ¹		20
Choose at least one course in each of the designated areas below. One course must be upper-division.		
Human Development and Growth ²		
CD 256	Developmental Psychology	
CD 304	Infant and Toddler Development	
CD 305	Early and Middle Childhood Development	
CD 306	Adolescence	
PSY 318	Psychology of Aging	
PSY 324	Psychology of Gender	
Applications to Education and Advocacy ³		
CD 350	Developmental Issues in Education	
CD 351	Learning in Out-of-School Time	
CD 356	Behavioral Disorders in Childhood	
CD 460	Child Abuse and Neglect	
PSY 320	Health Psychology	
PSY 325	Introduction to Positive Psychology	
PSY 350	Teamwork	
PSY 357	Cognition	
SPED 420	Understanding Special Education	
Social Context and Relationships		
CD 417	Interpersonal Relationships in Childhood & Adol.	
CD 424	Children's Development in Diverse Cultures	
LS 350	Identity and Equity in American Schools	
PSY 254	Family Psychology	
PSY 305	Personality	
PSY 340	Biopsychology	
PSY 475	The Social Psychology of Prejudice	
Total Units		20

Mathematics Concentration		
MATH 141	Calculus I	4
MATH 142	Calculus II	4
MATH 143	Calculus III	4
MATH 248	Methods of Proof in Mathematics	4
Select from the following:		4
LS 305	Project Based Learning in STEM Education	
MATH 300	Technology in Mathematics Education	
MATH 334	Combinatorial Math	
MATH 335	Graph Theory	
MATH 341	Theory of Numbers	
MATH 419	Introduction to the History of Mathematics	
MATH 442	Euclidean Geometry	
STAT 410	Statistics Education: Pedagogy, Content, Technology, and Assessment	
Total Units		20

¹ Additional courses are required if pursuing a minor in Child Development or Psychology. If you plan to pursue a minor, meet with an advisor early.

² If pursuing a career in Early Childhood Education (ECE), students may transfer 16 units of ECE credit from a community college. These students must also take an upper-division course in the areas of "Human Development and Growth" or "Applications to Education and Advocacy."

³ If pursuing a career in Special Education, students must take SPED 420.

Individualized Course of Study
With department chair approval, students may select one of the minors listed below or pursue a course of study which meets their individual needs and interests; this must be initiated early and all courses must be pre-approved. The individualized course of study consists of 18-20 units with at least one course at the 300-400 level. Courses are selected by the student in consultation with an advising faculty member. The list of courses is a contract between the student and the department. Minors that can be taken to create an Individualized Course of Study: Ethnic Studies, Music, Spanish.

Teaching English to Speakers of Other Languages Concentration		
COMS 316	Intercultural Communication	4
ENGL 290	Introduction to Linguistics ¹	4
or ENGL 390	The Linguistic Structure of Modern English	
ENGL 497	Theories of Language Learning and Teaching	4
ENGL 498	Approaches to Teaching English to Speakers of Other Languages	4
ENGL 499	Practicum in Teaching English to Speakers of Other Languages	2
Total Units		18

¹ Both ENGL 290 and ENGL 390 are required for the TESOL certification.

Environmental Education Concentration	
Cultural Geography	4
Select from the following:	
BOT 311 Plants, People and Civilization	
ES/NR 360 Ethnicity and the Land	
GEOG 150 Human Geography	
GEOG 370 Geography of Latin America	
GEOG 380 Geography of the Caribbean	
Ecological and Environment Foundations	4
Select from the following:	
BIO 114 Plant Diversity and Ecology	
BIO 227 Wildlife Conservation Biology	
BOT 326 Plant Ecology	
ERSC/ GEOG 250 Physical Geography	
NR 306 Natural Resource Ecology and Habitat Management	
NR 310 Global Climate Change	
PSC 201 Physical Oceanography	
Education and Communication	2-4
Select from the following:	
COMS 390 Environmental Communication	
LS 380 Education Apprenticeship ¹	
MSCI 440 Communicating Ocean Sciences to Informal Audiences	
NR/RPTA 328 Environ. Leadership and Community Engagement	
Social, Political, Economic & Ethical Issues	4
Select from the following:	
ERSC/ GEOG 325 Climate and Humanity	
GEOG 350 The Global Environment	
HIST 311 Comparative World Environmental History & Sustainability Since 1492	
NR 323 Human Dimensions in Natural Resources Mgmt	
PHIL 340 Environmental Ethics	
PSC 320 Energy, Society and the Environment	
Capstone	4
Select from the following:	
LS 413 Adv. Science/Engineering Integration for the K-8 Classroom ²	
SCM 360 Selected Environ. Issues of California's Central Coast	
Total Units	18-20

¹ No more than 4 units from LS 380.

² Students need to take LS 411 or LS 412 to meet other major requirements.

Science Concentration	
Chemistry Requirement , select from the following:	4
CHEM 110 World of Chemistry	
CHEM 124 Gen Chem for Physical Science & Engineering I	
CHEM 127 Gen Chem for Agriculture & Life Science I	
Physics Requirement , select from the following:	4
PHYS 111 Contemporary Physics for Nonscientists	
PHYS 121 College Physics I	
PHYS 141 General Physics I	
PSC 320 Energy, Society and the Environment	
Approved Concentration Electives² , select from the following:	12
ASTR 102 Introduction to Stars and Galaxies	
ASTR 324 Longitude, Navigation, and Timekeeping	
BIO 114 Plant Diversity and Ecology	
BIO 231 Human Anatomy and Physiology I	
BIO 232 Human Anatomy and Physiology II	
BIO 302 Human Genetics	
BIO 305 Biology of Cancer	
BIO/CHEM 308 Genetic Engineering Technology	
BOT 121 General Botany	
BOT 311 Plants, People and Civilization	
BOT 326 Plant Ecology	
CHEM 125 Gen Chem for Physical Science & Engineering II	
CHEM 126 Gen Chem for Physical Science & Engineering III	
CHEM 128 Gen Chem for Agriculture & Life Science II	
CHEM 129 Gen Chem for Agriculture & Life Science III	
CHEM 312 Organic Chemistry: Fundamentals and Applications	
CHEM 314 Biochemistry: Fundamentals and Applications	
CHEM 349 Chemical and Biological Warfare	
CHEM 377 Chemistry of Drugs and Poisons	
ERSC 223 Rocks and Minerals	
GEOL 102 Introduction to Geology	
GEOL 203 The Geologic Record: Fossils & the History of Life	
GEOL 206 Geologic Excursions	
GEOL 305 Seismology and Earth Structure	
LS 305 Project Based Learning in STEM Education ¹	
MCRO 221 Microbiology	
MCRO 342 Public Health Microbiology	
MCRO 421 Food Microbiology	
MSCI 111 Survey of Marine Biology	
MSCI 330 Technologies for Ocean Discovery	
MSCI 440 Communicating Ocean Sci. to Informal Audiences	
NR 306 Natural Resource Ecology & Habitat Management	
PHYS 122 College Physics II	
PHYS 123 College Physics III	
PHYS 142 General Physics II	
PHYS 143 General Physics III	
PHYS 330 Teaching Physics	
PSC 201 Physical Oceanography	
SCM 302/ ENGR 322/ HNRS 302 The Learn By Doing Lab Teaching Practicum ¹	
SCM 360 Selected Environ. Issues of CA's Central Coast	
SCM 368 Theory and Practice of STEM Tutoring ³	
Total Units	20

¹ A maximum of 4 units total from LS 305 and SCM 302/ENGR 322/HNRS 302 may be used in the concentration.

² Courses in BIO/BOT/MCR/MSCI may count towards a minor in Biology. Please consult a minor advisor for more information.

³ This course may not count towards an Introductory Subject Matter Authorization in Science.

History/Social Sciences Concentration		
HIST 322	Modern America	4
Select from the following World History courses:		4
HIST 221	World History, Beginnings to 1000 CE ¹	
HIST 222	World History, 1000-1800	
HIST 223	World History, 1800 - Present	
Select from the following U.S. Government courses:		4
POLS 112	American and California Government	
POLS 315	The American Presidency	
POLS 319	United States Congress	
POLS 348	Early American Political Thought	
POLS 349	Contemporary American Political Thought	
Select from the following World Civilization or World Culture courses:		4
HIST 307	European Thought 1800-2000	
HIST 310	East Asian Culture and Civilization	
HIST 313	Modern Middle East	
HIST 316	Modern East Asia	
HIST 319	Modern South and Southeast Asia	
HIST 334	Modern Europe, 1789-1914	
HIST 335	Modern Europe, 1914-Present	
HIST 338	Modern Latin America	
HIST 341	Modern Central America	
Select from the following Social Systems courses:		4
ES 381	The Social Construction of Whiteness	
LS 350	Identity and Equity in American Schools ²	
SOC 309	The World System and Its Problems	
SOC 315	Global Race and Ethnic Relations	
Total Units		20

¹ If course is taken to meet a Major or Support requirement, it may not be double-counted in the concentration.

² This course may not count towards an Introductory Subject Matter Authorization in History/Social Sciences.