

2006-2007 SAMPLE CURRICULUM: It may not be necessary to take these courses in the order given. Please consult your advisor about the selection of courses. ***In addition to the following major, candidates must have a passing score on the Praxis Series II Subject Assessment Test.

	FALL	WINTER	SPRING
FIRST YEAR			
Orientation Seminar (UNST 101)	1	-	-
College Writing (ENGL 111, 112, 113)	3	3	3
Lifetime Fitness (PEAC 120)	-	2	-
Theme IA: Understanding Human Beings OR National and Global Citizenship	4	-	-
Theme III: Religious Beliefs and Practice	-	-	4
Growing Up in America (SSCI 104) OR Identity and Society (SSCI 105) OR Childhood in Global Perspective (SSCI 106)	-	4	-
Theme IIA: Arts Appreciation or History	-	-	4
* General Chemistry (CHEM 111, 112, 113 & Labs)	5	5	5
** Calculus I, II (MATH 131, 132)	4	4	-
	17.0	18.0	16.0
SUMMER			
* Organic Chemistry I, II, III (CHEM 371, 372, 373 & Labs)	12.0		
SECOND YEAR			
*Chemistry Seminar (CHEM 205)	0.5	0.5	-
* Advanced Organic Laboratory (CHEM 375)	1	-	-
* Analytical Chemistry (CHEM 224)	4	-	-
* Astronomy (PHYS 304)	4	-	-
** General Biology (BIOL 111, 112, 113 & Labs)	5	5	5
# Teaching in the Multicultural Classroom (EDCI 204)	-	-	3
# The Construction of American Political Life (HPSC 274)	-	4	-
# Psychological Foundations of Education (EDFO 305)	-	4	-
Exploring American Culture through Literature (HUMN 204) OR Expl. Amer. Culture through Visual and Perf. Arts (HUMN 205)	-	-	-
Modern Language through Intermediate Level (101, 102, 103)	(4)	(4)	4
Theme III: Religious Beliefs and Practice	-	-	4
Apply to Teacher Education Program	14.5	17.5	16.0
* Chemistry Seminar (CHEM 205)	0.5	0.5	-
* Physical Chemistry (CHEM 351, 352 & Labs)	4	4	-
* General Physics (PHYS 231, 232, 233 & Labs)	5	5	5
* Earth Science (GEOL 314)	4	-	-
# Secondary Theory and Practice (EDCI 430)	-	4	-
# Dimensions of Health (HLED 214)	-	-	4
# Reading in the Content Area (EDCI 419)	-	-	5
# Culture, Society, Religion, & Ethics (EDCI 417)	-	4	-
Adventism in Global Perspective (RLGN 304) OR Reiligion in Three Cultures (RLGN 305)	-	-	5
Modern Language through Intermediate Level (201)	4	-	-
	18.5	16.5	18.0
THIRD YEAR			
* Chemistry of the Periodic Table (CHEM 417)	-	4	-
*Physical Chemistry: Quantum Mechanics (CHEM 353 & Lab) OR Topics in Inorganic Chemistry (CHEM 415) OR Instrumental Analysis (CHEM 424 & Lab OR 425 & Lab OR 426 & Lab)	4	-	-
* Senior Seminar (CHEM 405)	-	-	1
* Chemistry Electives to complete 72.5 units	-	2	4
* Introduction to Research (CHEM 408)	1	-	-
# Language and Literacy K-12 (EDCI 416)	-	-	3
# Student Teaching in the Secondary School (EDCI 457)	6	6	6
# Secondary Teaching in the Multicultural Classroom (EDCI 429)	-	2	-
Theme III: Religious Beliefs and Practice	4	-	-
Scientific Foundations: Choose one course from the following: NSCI 404, 405, 406, 407	-	4	-
Upper Division Rhetorical Course (This requirement met by CHEM 405, 408, and 1 from CHEM 424, 425, or 426)	-	-	(4)
Religious, Moral & Social Aspects of Physical Science (UNST 404D)	-	-	4
	15.0	18.0	18.0
FOURTH YEAR			
* Major Requirements			
** Cognate Requirements			
# Required for secondary teaching credentials (EDFO 404 required only for SDA Basic Certificate)			

PHYSICAL SCIENCE

B.S. Degree

With Secondary Teaching Credentials

CAREER OPPORTUNITIES AND RELATED OCCUPATION: This program is primarily to prepare students to teach on the secondary through the junior college level and offers a broader, less specialized, background than the Chemistry or Biochemistry major. It may also be used as a basis for Pre-Chemical Engineering, Pre-Medicine, Pre-Dentistry or other health-related occupations, i.e. laboratory technician, manufacturing industries, occupational safety/health workers, agricultural scientist, biological scientist and chemical technician.

EDUCATIONAL QUALIFICATIONS: For teaching at the high school level a state credential is required. Once employed as a teacher, you may advance to the Master's program in the School of Education. For entry into health-related occupations, choices of additional science electives are recommended. Training beyond the B.S. level is eventually required for access to many higher level jobs.

DENOMINATIONAL OPPORTUNITIES: Science teachers are in demand in Seventh-day Adventist academies.

JOB OUTLOOK: Job opportunities for teachers over the next 10 years will vary from good to excellent, depending on the locality, grade level, and subject taught. Currently, many school districts have difficulty hiring qualified teachers in some subject areas—most often mathematics, and science, especially chemistry and physics.

ENTERING SALARY: The Pacific Union Conference entering wage level for credentialed teachers in 2006 ranges from **\$39,748** to **\$49,175** depending on the area of employment.

In 2005, the average entering salaries for credentialed teachers in the Inland Empire begin at **\$39,618**. Those with a Master's degree and more experience an average of about **\$70,000** a year.

SOURCES OF ADDITIONAL INFORMATION

Websites:

La Sierra University

<http://www.lasierra.edu/>

Department Contacts:

Chairperson:

Marvin Payne

Advisors:

Raymond Shelden

Location:

Palmer Hall Room 230

951-785-2148

Professional Organizations & Career

Information:

National Science Teacher's
Association (NSTA)

1742 Connecticut Avenue, NW
Washington, D.C. 20009

American Chemical Society (ACS)
Career Services

1155 16th Street, NW
Washington, D.C. 20036

The Science Teacher

Journal of Chemical Education
Science Journal

Chemical and Engineering News

Academic Advising
Administration Building
Room 206
(951) 785-2951

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