

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.

		FALL	WINTER	SPRING
FIRST YEAR	Orientation Seminar (UNST 101)	1	-	-
	College Writing (ENGL 111, 112, 113)	3	3	3
	Growing Up in America (SSCI 104) OR Identity and Society (SSCI 105) OR Childhood in Global Perspective (SSCI 106)	-	-	4
	Lifetime Fitness (PEAC 120)	2	-	-
	* General Biology (BIOL 111, 112, 113 & Labs)	5	5	5
	** Calculus I (MATH 131)	-	4	-
	** General Chemistry I, II, III (CHEM 111, 112, 113 & Labs)	5	5	5
		<u>16.0</u>	<u>17.0</u>	<u>17.0</u>
SECOND YEAR	* Tools & Methods I, II, III (BIOL 221, 222, 223)	1	1	1
	** Organic Chemistry I, II, III (CHEM 371, 372, 373 & Labs)	4	4	4
	** General Physics (PHYS 231, 232, 233 & Labs)	5	5	5
	Theme IA: Understanding Human Beings OR National and Global Citizenship	-	4	-
	Exploring American Culture through Literature (HUMN 204) OR Expl. Amer. Culture through Visual and Perf. Arts (HUMN 205)	4	-	-
	Theme III: Religious Beliefs and Practice	4	4	-
	Modern Language through Intermediate Level (101 & 102)	-	(4)	4
		<u>18.0</u>	<u>18.0</u>	<u>14.0</u>
THIRD YEAR	* Biology Colloquium I (BIOL 350)	-	0.5	-
	* Biostatistics (BIOL 376)	4	-	-
	* Cellular and Molecular Biology (BIOL 301 & Lab)	5	-	-
	* Genetics (BIOL 302 & Lab)	-	5	-
	* Developmental Biology (BIOL 303 & Lab)	-	-	5
	Theme IIA: Arts Appreciation or History	-	4	-
	Theme IIB: Historical or Contemporary Culture & Context	-	4	-
	Rhetorical Course (Upper Division) This requirement met by BIOL 301L, 302L, 303L and 405	-	-	(4)
	Adventism in Global Perspective (RLGN 304) OR Religion in Three Cultures (RLGN 305)	-	-	4
	Modern Language through Intermediate Level (201)	4	4	-
	Electives	4	-	4
		<u>17.0</u>	<u>17.5</u>	<u>15.0</u>
FOURTH YEAR	* Biology Colloquium II (BIOL 450)	0.5	-	-
	* Seminar (BIOL 405)	2	-	-
	* Biology Electives 12 units from BIOL 408,410,434,436,439,446,466,467,469,474,485,487, any upper division course taught at Rosario Marine Station	4	4	4
	* General Ecology (BIOL 414) OR Environmental Science (BIOL 415)	-	4	-
	* Vertebrate Natural History (BIOL 477)	4	-	-
	Scientific Foundations: Choose one course from the following: NSCI 404, 405, 406, 407	4	-	-
	Theme III: Religious Belief and Practice	-	4	-
	Religious, Moral & Social Aspects of Biology (UNST 404B)	-	-	4
	Electives to complete 190 quarter units	-	4	8
		<u>14.5</u>	<u>16.0</u>	<u>16.0</u>
* Major Requirements		** Cognate Requirements		

BIOLOGY

Biological Science

B.S. Degree

The objectives of the Department of Biology are to help students better understand themselves and the natural world, to develop a scholarly and practical approach to the study of scientific information, and to prepare them for a career in biology or any of the many other related fields of employment.

CAREER OPPORTUNITIES AND RELATED OCCUPATIONS: Biology graduates are employed in a broad variety of government and private sector positions including, but not limited to field positions (forest service, park service, fish and wildlife management, conservation, ecology), agriculture research or management, food manufacturing industries, waste management, environmental safety and testing, industrial quality control, pharmaceutical and immunochemical industries, biotechnology (genetic engineering, molecular biology, microbiology, immunology), health related research (cancer, infectious disease, genetics), health professions (medicine, dentistry, optometry, allied health, public health), and teaching at the secondary and college levels.

EDUCATIONAL QUALIFICATIONS: Graduate training in a given area enhances the students' employability in some areas. Extraordinary opportunities are provided for the Biology students to obtain valuable experience in research laboratories of the faculty.

JOB OUTLOOK: Employment of biological scientists is projected to grow about as fast as average for all occupations over the 2004-14 period, as biotechnological research and development continues to drive job growth. Opportunities for those with a bachelor's or master's degree in biological science are expected to be better.

ENTERING SALARY: According to the National Association of Colleges and Employers, beginning salary offers in April 2006 averaged **\$32,550** a year for bachelor's degree recipients in Biological and Life Sciences.

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.

As in any profession, salaries are determined by experience, professional preparation, employment setting and economic conditions of geographic location. Specific geographic regions, including Southern California, may provide more job opportunities and higher pay scales because of the high concentration of health related research facilities and biotechnology firms in the area.

SOURCES OF ADDITIONAL INFORMATION

Websites:

La Sierra University

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

Department of Biology

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

Department Contacts:

Chairperson:

Lawrence McCloskey

Advisors:

G. Bradley

N. Dean

L. Grismer

E. Joseph

L. McCloskey

J. Perumal

J. Wilson

Location:

Palmer Hall

951-785-2105

Professional Organizations:

American Institute of Biological
Sciences

Suite 200, 1444 I St. NW

Washington, DC 20005

<http://www.aibs.org>

American Society for Biochemistry
and Molecular Biology

9650 Rockville Pike

Bethesda, MD 20814

<http://www.faseb.org/asmb>

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

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