

LMU Department of Natural Science

Secondary Science Education Curriculum

Biology Emphasis (126 S.H.)

Freshman Year				Sophomore Year			
<i>Fall Semester</i>				<i>Fall Semester</i>			
			<i>S.H.</i>				<i>S.H.</i>
BIOL	101	General Biology I	3	BIOL	201	Cell Function	3
BIOL	111	General Biology I Lab	2	CHEM	220	Organic Chemistry I	3
CHEM	110	General Chemistry I	3	CHEM	221	Organic Chemistry I Lab	1
CHEM	111	General Chemistry I Lab	1	NTLS	250	The Blue Planet: Introduction to Earth System Science	3
MATH	122	Calculus I *	3	_____	_____	HIST 161 or POLS 135 (core)**	3
ENGL	110	College Writing I	3	PSYC	100	General Psychology (core)	<u>3</u>
NTLS	190	Exploring the Natural Sciences	1				16
			16				
<i>Spring Semester</i>				<i>Spring Semester</i>			
			<i>S.H.</i>				<i>S.H.</i>
BIOL	102	General Biology II	3	BIOL	202	Genetics	3
BIOL	112	General Biology II Lab	2	EDUC	400	Socio-Cultural Analysis of Education	3
CHEM	112	General Chemistry II	3	EDUC	414	Theories in Second Language Acquisition	3
CHEM	113	General Chemistry II Lab	1	_____	_____	University Core	3
MATH	123	Calculus II		_____	_____	Elective	<u>3</u>
or		or					15
MATH	154	Elementary Statistics	3				
_____	_____	University Core	<u>3</u>				
			15				
Junior Year				Senior Year			
<i>Fall Semester</i>				<i>Fall Semester</i>			
			<i>S.H.</i>				<i>S.H.</i>
BIOL	318	Ecology	3	BIOL	475	Evolution	4
BIOL	319	Ecology lab	1	NTLS	301	Environmental Science	3
NTLS	370/ 371	Workshop Biology: Life Works +Lab	3	NTLS	367	The Science & Life of Galileo	
PHYS	253	General Physics I	4	or		or	
PHYS	255	General Physics I Lab	0	PHYS	271	Astronomy	3
_____	_____	University Core	3	NTLS	491	¹ Science Education Internship	3
EDUC	440	Introduction to the Culturally and Linguistically Diverse Student ...	<u>3</u>	_____	_____	University Core U.D.	<u>3</u>
			17				16
<i>Spring Semester</i>				<i>Spring Semester</i>			
			<i>S.H.</i>				<i>S.H.</i>
NTLS	372/373	Workshop Biology: Life Works +Lab	3	NTLS	355	Exercise Physiology	
PHYS	254	General Physics II	4	or		or	
PHYS	256	General Physics II Lab	0	BIOL	351	General Physiology	3
EDUC	401	Applied Educational Psychology for the Childhood & Adolescent Years	3	NTLS	356	Exercise Physiology Lab	
_____	_____	University Core	3	or		or	
_____	_____	University Core	<u>3</u>	BIOL	352	General Physiology Lab	1
			16	_____	_____	U.D. Science Elective	3
				_____	_____	University Core	3
				_____	_____	University Core	3
				_____	_____	U.D. Elective	<u>3</u>
							16

¹ The science education internship is placed in the paradigm during the senior year because the units can be accommodated there. We encourage all students to complete the internship requirement as early as possible. Most do their first internship during the summer after their sophomore year.

* The course sequence in Mathematics depends on the results of the mathematics placement examination.

** Completion of either course will satisfy a University core requirement. Please see advisor for the proper sequence of the University Core courses.