CALIFORNIA STATE UNIVERSITY, LOS ANGELES PROGRAM FOR THE BACHELOR OF SCIENCE DEGREE IN NATURAL SCIENCE Interdisciplinary Science (Option I)

Student Name:	CIN:
Email address:	Phone:
GE Year / Major Year:	Advisor:
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Requirements for this degree

The Bachelor of Science Degree in Natural Science provides broad training across several science disciplines and is offered as three options: Interdisciplinary Science (Option I), Teaching (Option II), and Applied Science (Option III). Natural Science majors choose one option. Majors choosing the Interdisciplinary Science or Teaching option must select an emphasis area in biology, chemistry, geoscience, or physics, and majors choosing the Applied Science option must select an emphasis area in health science or bridge to clinical laboratory science. Students should speak with a Natural Science adviser before choosing an option.

- In each options students must earn a grade of C or higher in all courses that satisfy the following university, general education or major requirements.
- Consult with an advisor for the specific number of units required in all areas of the degree including General Education, 40 upper-division unit graduation requirement, and elective units needed to complete the major.

Option I - Bachelor of Science Degree in Natural Science - Interdisciplinary Science

The Interdisciplinary Science option of the Bachelor of Science degree in Natural Science is of value to those seeking careers where a broad science background is useful, including careers in academia, business, government, law, medicine, nonprofit organizations, and other fields. Students study multiple natural science disciplines (i.e., biology, chemistry, geoscience, and physics) and choose one area from biology, chemistry, geoscience, and physics as an emphasis area of study. Total number of units required for the degree is 120, of which 71-80 units are in the major depending on the emphasis selected.

The following worksheets show the major requirements for each of the emphasis areas, and the last page shows the GE and University requirements.

NOTES:

INTERDISCIPLINARY SCIENCE MAJOR REQUIREMENTS – GEOSCIENCE EMPHASIS

Requirement	Units	Transfer institution	Or Cal State L.A.	Term	Grade
A		and equivalent course	course number and title		
BIOL 1100 – Principles of Biology I	5	RE (42-51 units)		1	I
BIOL 1200 – Principles of Biology II	5				
MATH 2110 – Calculus I	4				
MATH 2110 – Calculus II	4				
Choose one course from the following list of course NATS 4000 – Crosscutting Concepts in Natural	S	<u> </u>	1		
Science	3				
NATS 4100 – The Natural Science	3				
NATS/LBS 4200 – Cultures of Science	3				
NATS 4540 – Current Topics in Natural Science	3				
Capstone course		<u> </u>			
NATS 4950 - Natural Science Field Studies	3				
Additional Core requirements based on Emphasis:		<u> </u>	<u> </u>	l	
Students must choose one emphasis area from among		chemistry geoscience or	physics as a focus of study t	hat deterr	nines the
Additional Core requirements below:	5 010105)	, enemisary, geoscience, or	physics as a recas of stady t	1141 401011	innes the
Choose three sets of courses from the following fou	r sets:				
Set 1. ASTR 1510 - Principles of Astronomy	2				
ASTR 1520 - Principles of Astronomy:					
Laboratory	1				
Set 1. CHEM 1100 - General Chemistry I	5				
CHEM 1110 - General Chemistry II	5				
Set 3. GEOL 1500 - Earth Revealed	3				
GEOL 2520 - Historical Geology	4				
Set 4. PHYS 1100 - Physics A	4				
PHYS 1200 - Physics B	4				
or:					
Set 4. PHYS 2100 - Physics A	4				
PHYS 2200 - Physics B	4				
		SIS AREA (29 units)			
Students must choose the same emphasis area that	was cho	sen to determine their CO	RE requirements		
Geoscience Emphasis Required Courses (20 units)		T	T		
BIOL 3200 - Professional Writing in the Biological	3				
Sciences					
GEOG 2680 - Intro to Geospatial Sciences	4				
GEOG 4100 - Applied Climatology	3				
GEOL 3010 - Mineralogy and Petrology	3				
GEOL 3210 - Geology of Southern California	3				
GEOL 4350 - Coastal Processes & Environments	3				
Geoscience Emphasis Upper Division electives (9 un					
Select upper division BIOL, CHEM, GEOG, GEOL, N	MATH, I	NATS, or PHYS courses. M	aximum 3 units of directed s	tudy alloi	ved.
Elective					
Elective					
Elective	DD DI D	CENTER (1 10 11)			
		CCTIVES (1 - 10 units)	TEN CHEM NATE DING	1	
Select lower and/or upper division electives. Completi recommended.	on oj aa	aitional Core courses in AS	IR, CHEM, NAIS OF PHYS	is strongi	V
Elective					
TOTAL SEMESTER UNITS REQUIRED	81			•	•
					

GENERAL EDUCATION AND UNIVERSITY REQUIREMENTS

GE Block and Area	Units	Transfer institution and equivalent course	Or Cal State L.A. course number and title	Term	Grade	
LOWER DIVISION (39 units)						
A. English Language Communication and Critical Tl	ninking (9	units)				
A1 Oral Communication	3					
A2 Written Communication	3					
A3 Critical Thinking and Composition	3					
B. Scientific Inquiry and Quantitative Reasoning	(9 units)					
Select three courses from at least two categori	es					
B1 Physical Science with lab						
B2 Biological Science with lab	6	NATS Option I majors satisfy by taking Core requirements for major				
B3 Interdisciplinary Physical-Biological Science						
B4 Quantitative Reasoning & Mathematical Concepts	3					
C. Arts and Humanities (9 units)						
C1 Arts	3					
C2 Humanities	3					
C AI U.S. History (American Institutions)	3					
D. Social Sciences (9 units)						
D	3					
D	3					
D AI U.S. Constitution and State/Local Govt (American Institutions)	3					
E. Lifelong Learning and Self-Development (3 unit	its)					
IHE (cl)	3					
UPPER DIVISIO	N (9 unit	s) (at least one course desi	ignated (cl))			
B Natural Science and Quantitative Reasoning	3					
C Arts and Humanities	3					
D Social Sciences	3					
TOTAL SEMESTER UNITS REQUIRED	48					

Other Requirements	Units	Transfer institution and equivalent course	Or Cal State L.A. course number and title	Term	Grade
Diversity (d) or (re) (two courses, one course must be re)					
Civic Learning (cl) (upper division GE course)					
Writing Intensive (wi) (two courses) (Upper Division electives)					
Graduation Writing Assessment Requirement (GWAR)					