NATURAL SCIENCE

The Natural Science degree provides students with an introduction to the nature of living things, our physical environment, matter, energy, and their interactions. The core areas covered by the degree are biology, chemistry, geology, geography, mathematics, and physics. Additionally, students pursuing this major have the option of exploring such diverse fields as environmental science, physical science, and psychology. Many of the courses emphasize exploration and study Lake Tahoe and the surrounding areas, a natural lab of outstanding beauty and richness.

Student Learning Outcomes for this major are:

*May not be taken as an elective, if BIO 101 has been taken for credit BIO 111** Introduction to Plant and Animal Biology **May not be taken as an elective, if BIO 102 has been taken for credit

- · Apply the scientific method to analyze science-related organisms, structures, processes, and issues on a local, regional, national, and global level.
- Illustrate and convey how the particulate nature of matter corresponds to the microscopic and macroscopic properties of substances.
- Dissect, model, and communicate the complexity of the natural environment into its component interconnected systems.

A.			CATION REQUIREMENTS	BIO 112	, 0,
	See pag	es 55-57 fo	or details.	BIO 113	<i>C</i> ,
В.	REQUIRED COURSES			BIO 115	5 Forensics
D.	30.5-37.25 units distributed as follows:			BIO 121	1 Musculoskeletal Anatomy
	1. Three courses selected from the following (min. 15 units):			BIO 149	9 Ecology
			er this section cannot be double-counted for Area B.3.)	BIO 201	1 Botany
		IO 101	Principles of Biology I	BIO 203	, , ,
		IO 101	Principles of Biology II	BIO 204	, , ,
		IO 102	Principles of Biology III	BIO 205	5 Human Anatomy and Physiology III
		HM 101	General Chemistry I	BIO 210	0 Microbiology
		HM 102	General Chemistry II	BIO 212	
		HM 103	General Chemistry III	CHM 1	,
		EG 101	Physical Geography	CHM 1	01 General Chemistry I
		EL 102	Physical Geology	CHM 1	,
		EL 102 EL 103	History of the Earth and its Life	CHM 1	03 General Chemistry III
		EL 103 EL 114	Introduction to Earth Sciences	CHM 1	
		HS 117	Oceanography	CHM 1	
		HY 104	General Physics I	CIS 135	6A/GEG 134 Introduction to Geographic Information
		HY 105	General Physics II		Systems
		HY 106	General Physics III	EVS 102	2 Environmental Science: System Dynamics
		HY 107	General Physics (Calculus) - Mechanics	EVS 103	3 Environmental Science: Human Impacts
		HY 108	General Physics (Calculus) - Waves,	EVS 104	4 Laboratory Methods
	11	111 100	Thermodynamics and Light	EVS 105	5 Field Methods
	DI	HY 207	General Physics (Calculus) -	GEG 10	11 Physical Geography
	11	111 20/	Electricity and Magnetism	GEG 10	O5 Conservation of Natural Resources
	DI	HY 208	General Physics (Calculus) - Optics and Modern	GEG 10	08 Water Resources
	11	111 200	Physics	GEG 11	13 Meteorology
			·	GEL 10	1 Geology of California
			selected from the following (4-5 units):	GEL 10:	2 Physical Geology
		IAT 102	Survey of Mathematical Ideas	GEL 10.	3 History of the Earth and its Life
			College Algebra (Part I)	GEL 10	
			College Algebra (Part II)	GEL 11	O Geology of the National Parks and Monuments
		IAT 104	College Trigonometry	GEL 11-	4 Introduction to Earth Sciences
		IAT 105	Calculus and Analytic Geometry (Part I)	PHS 102	2 Survey of Concepts in Chemistry and Physics
		IAT 106	Calculus and Analytic Geometry (Part II)	PHS 11	1 Astronomy
		IAT 107	Calculus and Analytic Geometry (Part III)	PHS 117	7 Oceanography
		IAT 118	Calculus for Business and Social Sciences	PHY 10	4 General Physics I
		IAT 201	Elementary Statistics	PHY 10	5 General Physics II
		IAT 202	Calculus and Analytic Geometry (Part IV)	PHY 10	6 General Physics III
		IAT 203	Linear Algebra	PHY 10	7 General Physics (Calculus) - Mechanics
	M	IAT 204	Differential Equations	PHY 10	
	3. Three courses selected from the following (11.5-17.25 units):			Thermodynamics, and Light	
			er this section cannot be double-counted for Area B.1.)	PHY 20	7 General Physics (Calculus) - Electricity
		NT 103	Physical/Biological Anthropology		and Magnetism
		IO 101	Principles of Biology I	PHY 20	•
		IO 102	Principles of Biology II		Physics
		IO 103	Principles of Biology III	PSY 210	Introduction to Biological Psychology
		IO 110*	Introduction to Cell and Molecular Biology		
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C. ELECTIVE UNITS to bring the total to 90.