Point Loma Nazar	rene University			LO 1			LO 2		.0 3		LO 4	LO 5		LO 6
20.110 140201		Demo	onstrat				oncepts and		strumentation and	Participate in the life of the B	Biology and/or Chemistry Department I			ed for post
		unde	rstandi	ing of	the proces	s principles in	analytical		ment to conduct		of the following areas: research, biolog	integration of science and fai	h, graduate s	tudies or a
		of sci	ence a	nd of t	the concep	ts chemistry in	cluding		ments and perform		or various positions of responsibility	particularly with regard to		lated career.
		and t	heorie	s of bi	ology acros	ss quantitative	and	chemical charac	terization and		ockroom workers and/or teaching	environmental stewardship.		
			ad ran			instrumenta	al analysis.	analyses.		assistants.		1		
Environmental Science B.S. Curriculum Map - Students			nizatior											
will be able to:					llular (C), nd ecologic									
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Course	Course Title													
	N REQUIREMENTS	м	С	0	E									
	Environment and People			ī	ī	1						1		1
		-	_										_	<del></del>
	Cell Biology and Biochemistry	Ľ-		-		+							_	<del>-</del>
	Ecological and Evolutionary Systems	-		+	-			1				'	_	-
	Organismal Biology	<u> </u>				-		1				1		1
	General Chemistry Tutorial (can be waived)	<u> </u>					I							
	General Chemistry I						1	1	1					
	General Chemistry II						1	1	1					
CHE 213	Analytical Chemistry	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$					D/M		D					
CHE 294	Organic Chemistry I								D					
UPPER-DIVISION	N REQUIREMENTS	М	С	0	E									
BIO 345	Genetics	D	D	D								D		D
BIO 363	Conservation Ecology			D	D							D		D
	Biology Seminar											М		М
	Instrumental Analysis	Т					М		М					
ADVANCED		1				1								
SCIENCE		ĺ												
ELECTIVES	(minimum 8 units)	м	С	0	E									
	Applied Plant Biology		D	М	D	1								D
	Microbiology	D	D	141	D	-								D
		U	U	D								D	_	D
	Introduction to Oceanography	_		D								U	_	
	Insect Biology	├						-					-	D
	Marine Biology	├			/M D/N	Л		-				D	-	D
	Field Biology			D	D									D
	Vertebrate Biology				1 D/M							D/M		D
	Vertebrate Physiology			D/N										D
	Animal Behavior	<u> </u>			D/M			1				D/M		D
	Experimental Marine Ecology	<u> </u>		M	М									D
BIO450/CHE450	Advanced Biochemistry	М	М		_									D
	Organic Chemistry II	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$												
CHE 325	Physical Chemistry I													
CHE 351	Organic Structure Elucidation													
	Advanced Inorganic Chemistry I													
	Advanced Inorganic Chemistry II													
Methodology														
	(minimum 1 course)	м	С	О	E	1		1						
	Research Methodology	D	D	D	D			1						
	Internship in Biology	М	М	М				1				1		D/M
	Research in Biology	M	M			+		<del>                                     </del>				+		D/M
	Internship in Chemistry	141	171		141	+		1				+	-	J, .VI
	Research in Chemistry	$\vdash$				+		+				+		
		+						1		l				
Extracurricular Ac		⊢						1		ı		1		I/D
	pre-health, pre-teaching)	<u> </u>				1		+				+		I/D
Career Dinners		<u> </u>				-		<del></del>						D
	/or grader, tutor, stockroom worker, TA	<u> </u>				1		<b></b>			I/D/M			I/D
Research		<u> </u>						1			D/M			D/M
Internships		1				1			hassesse (				1	D/M

<sup>\*</sup>Core competencies (critical thinking, information literacy, oral communication, quantitative literacy, written communication) assessed