Point Loma Nazarene University		LO 1	LO 2a	LO 2b	LO 2c	LO 2d	LO 2e	LO 3	LO 4	LO 5	LO 6
. S LOITIG HUZUICHE		Demonstrate an	Apply key concepts	Apply key concepts	Apply key concepts and	Apply key concepts	Apply key concepts and principles in	Use standard	Participate in the life of	Develop a rationally	Be prepared for post
		understanding of the	and principles in	and principles in	principles in bioinorganic	and principles in	physical chemistry (thermodynamics	instrumentation and		defensible integration of	graduate studies or a
Biology-Chemistry B.S. Curriculum Map - Students will be able to:		process of science,	quantitative analysis.	biochemistry.	chemistry.	organic chemistry.	and kinetics).	laboratory	Chemistry Department by		science-related career.
		and of the concepts						equipment to	involvement in one or		
		and theories of						conduct scientific	more of the following		
		biology across a broad						experiments and	areas: research, biology		
		range of organizational levels:						perform chemical characterization and	and/or chemistry clubs, and/or various positions		
		molecular (M), cellular						analyses.	of responsibility serving as		
		(C), and organismal						anaryses.	graders, tutors,	1	
		(O).							stockroom workers		
									and/or teaching		
									assistants.		
Course	Course Title										
LOWER-DIVISION F		м с о		<u>l</u>		<u>l</u>	<u> </u>				
	Cell Biology and Biochemistry	1 1								1	
	Ecological and Evolutionary Systems	· '					1			<u>'</u>	<u> </u>
	Organismal Biology	-	<del> </del>				+			'	-
	General Chemistry Tutorial (can be waived)	1	1	1	1	1	1				1
	General Chemistry I			'	1	l l	1	1			
	General Chemistry II					'	† ;				1
	Analytical Chemistry		D/M	'	'	'	D	D			
			D/IVI	,		D	Ь	D			
UPPER-DIVISION R	Organic Chemistry I	мсо		!		D		U			
			1	l	1					-	-
	Genetics	5 5								D	D
	Molecular Biology	D/M D									D
	Biology Seminar			_						M	M
	Organic Chemistry II			D		M		M			
	Physical Chemistry I			_	- 6		M	М			
	Advanced Inorganic Chemistry I			D	D/M		_				_
	Advanced Biochemistry	M M		M	D		D	М			D
One course from:		м с о	1	Г	1						
	Physical Chemistry II						1				
	Organic Structure Elucidation						1				
	Instrumental Analysis						1				
	Advanced Organic Chemistry		ļ				<del> </del>				1
	Advanced Inorganic Chemistry II		1		<u> </u>		1				
Two courses from:		M C O	1	ı	1						
	Research Methodology	D D D					1				D
	Microbiology	D D					1				D
	Advanced Cell Biology	M M					1				D
	Immunology	M M M					1				D
	Developmental Biology	M M D					1			M	D
	Vertebrate Physiology	D D/M	l		l		1			l	D
Other Activities			1	ı	1	T	T	ı		1	T
	-health, pre-teaching)						1				I/D
Career Dinners			ļ				1		ļ		D
	grader, tutor, stockroom worker, TA								I/D/M		I/D
Research		M M M	ļ						D/M		D/M
Internships			entitativa litaraasi suu								D/M

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