

Point Loma Nazarene University		LO 1a	LO 1b	LO 1c	LO 1d	LO 1e	LO 2	LO 3	LO 4
Chemistry B.S. Curriculum Map - Students will be able to:		Apply key concepts and principles in analytical chemistry.	Apply key concepts and principles in biochemistry.	Apply key concepts and principles in inorganic chemistry.	Apply key concepts and principles in organic chemistry.	Apply key concepts and principles in physical chemistry.	Use standard instrumentation and laboratory equipment to conduct scientific experiments and perform chemical characterization and analyses.	Participate in the life of the Chemistry Department by involvement in one or more of the following areas: research, chemistry club, and/or various positions of responsibility serving as graders, tutors, stockroom workers and/or teaching assistants.	Be prepared for post graduate studies or a science-related career.
Course	Course Title								
LOWER-DIVISION REQUIREMENTS									
CHE 151	General Chemistry Tutorial <i>(can be waived)</i>	I	I	I	I	I			
CHE 152	General Chemistry I	I	I	I	I	I	I		
CHE 153	General Chemistry II	I	I	I	I	I	I		
CHE 213	Analytical Chemistry	D				D	D		
CHE 294	Organic Chemistry I		I		D		D		
UPPER-DIVISION REQUIREMENTS									
CHE 304	Organic Chemistry II		D		M		M		
CHE 325	Physical Chemistry I			D		M	M		
CHE 326	Physical Chemistry II			D		M			
CHE 327	Physical Chemistry II Lab					M	M		
CHE 351	Organic Structure Elucidation				M		M		
CHE 370	Instrumental Analysis	M					M		
CHE 450	Advanced Biochemistry		M			D	M		
CHE 453	Advanced Organic Chemistry			D	M				
CHE 454	Advanced Organic Chemistry Lab				M		M		
CHE 466	Advanced Inorganic Chemistry I		D	D					
CHE 467	Advanced Inorganic Chemistry Lab			M			M		
CHE 468	Advanced Inorganic Chemistry II			M					
CHE 495*	Chemistry Seminar								D/M
OTHER ACTIVITIES									
Advising (faculty, pre-health, pre-teaching)									I/D
Career Dinners									D
Chemistry club and/or grader, tutor, stockroom worker, TA								I/D/M	I/D
Research								D/M	D/M
Internships									D/M

*Core competencies (critical thinking, information literacy, oral communication, quantitative literacy, written communication) assessed