

<b>Chemistry Major in Prep for SS</b>				rec					red		
TOTAL Contact Dr. Phoebe Roeder	122	sem	sem	gr	college	TOTAL with credential program prerequisites	128	sem	sem	gr	
Adviser at proeder@mail.sdsu.edu											
TOTAL PREP, LD GE, & AI	82					TOTAL MAJOR, CORE, AND GE	40				
<b>LOWER DIVISION PREP FOR MAJOR</b>	39					<b>UPPER DIVISION MAJOR</b>	24				
Chem 200 General Chemistry I (lab)	5	1				Chemistry 410A Physical Chemistry I (lab)	4	5			
Chem 201 General Chemistry II (lab)	5	2				Chemistry 410B Physical Chemistry II	3	6			
Chem 231 Organic Chemistry I	4	4				Chemistry 417 Adv. Phys. Chemistry lab	2	6			
Chem 251 Analytical Chemistry	5	4				Chemistry 431 Organic Chemistry (lab)	4	5			
Math 150 Single Variable Calculus	4	1				Chemistry 457 Inst. Methods Chem Anal Lab	2	7			
Math 151 Calculus & Anal Geom	4	2				Chemistry 498 Senior Project (1)	1	8			
Phys 180A Fundamentals of Phys I (3)	3	3				Chemistry 520A Inorganic Chemistry I (3)	3	7			
Phys 182A Physical Measurements I (1)	1	3				Chemistry 550 Instr Methods of Chem Analysis	2	7			
Phys 180B Fundamentals of Phys II (3)	3	4				Chemistry 560 General Biochemistry I	3	8			
Phys 182B Physical Measurements II (1)	1	4									
Math 252 Multivariate Calculus (4)	4	5				(Matches basic BA in Chemistry but not Phy 195 seq)					
OR						(and not the new 1 unit inorganic chemistry lab)					
Phys 195 Principles of Physics I (3)		3									
Phys 195L Princ of Physics Lab (1)		3									
Phys 196 Principles of Physics II (3)		4									
Phys 196L Princ of Physics Lab (1)		4									
Phys 197 Principles of Physics III (3)		5									
Phys 197L Princ of Physics Lab (1)		5									
<b>LOWER DIVISION SCIENCE CORE</b>	16					<b>UPPER DIVISION SCIENCE CORE</b>	7				
Astro 201 General Astronomy	3	6				Nat Science 315 Hist Science and Technology	3	6			
Astro 109 Astronomy Laboratory	1	6				(Integrative and technology component)					
Biol 201A Prin. of Cell & Molec. Biol (lab)	4	3				Geol Sci 412 Process & Inquiry: Earth Sci	4	7			
Biol 201B Organismal (lab) (201)	4	4									
Com 103	3	2									
Teacher Ed 211 Math and Science Field Exper	1	3									
<b>LOWER DIVISION GE &amp; AI</b>	27					<b>UPPER DIVISION GENERAL</b>	9				
AFS 120, MAS 111B, RWS 100	3	1				Social (Recommend Linguistics 420)	3	7			
AFS 200 or RW 200	3	2				Humanities (Cross Cultural Explorations)	3	8			
GE Social Sci (Recommend Psych 101)	3	su1				American Institutions	3	8			
GE Social Science	3	6									
GE Humanities	3	1									
GE Humanties	3	3									
GE Humanities	3	su2									
GE Humanities (foreign language rec)	3	5									
Constitution & history	3	3									
<b>LOWER DIVISION CRED PREREQUISITES</b>	1					<b>UPPER DIVISION CRED PREREQUISITES</b>	5				
Health 280 (1 unit)	1	[8]				Education 451 Multicultural Education (3 units)	3	8			

30hours of field experience & CBSET					Special Ed 450 (2 units)	2	[8]		
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