## PHARMACY PREREQUISITE COURSEWORK

www.csusm.edu/prehealth

The following prerequisite courses are offered at CSUSM. Courses numbered 300+ are upper-division courses. Requirements vary among individual schools and subject to change. Please check each school you intend to apply for most current requirements.

<b>MAT</b>	HEMATICS: (2 semesters)	<u>SOCI</u>	AL/BEHAVIORAL SCIENCE: (1 or more courses)	
	MATH 160 "Calculus with Applications I"		PSYC 100 "Intro to Psychology"	
	MATH 162 "Calculus with Applications II"		SOC 101 "Intro to Sociology"	
			ANTH 200 "Cultural Anthropology"	
	ISTICS:			
	BIOL 215 "Biostatistics"; <b>or</b>	<u>PUBI</u>	IC SPEAKING:	
	MATH 242 "Intro to Statistics"		GEO 102 "Oral Communication"	
	ERAL CHEMISTRY: (2 semesters with Lab)		TIONAL BIOLOGY COURSES TO CONSIDER:	
	CHEM 150/150L "Gen Chemistry I + Lab"; and		BIOL 351 "Molecular Cell Biology + Lab"	
	CHEM 160/175 "Gen Chemistry II + Lab"; or		BIOL 352 "Genetics + Lab"	
	CHEM 160/275 "Gen Chemistry II + Quantitative Investigations"		BIOL 353 "Comparative Animal Physiology + Lab"	
	**CHEM 275 only if required by major		BIOL 477 "Immunology"	
			BIOL 477L "Immunology Lab"	
ORGANIC CHEMISTRY: (1 or 2 semesters with Lab)				
	CHEM 201/201L "Organic Chemistry I + Lab"			
	CHEM 202/202L "Organic Chemistry II + Lab"			
	<u>HEMISTRY:</u> (1 or 2 semesters; lab optional)			
	CHEM 341 "General Biochemistry" (if only 1 semester required); or			
	CHEM 351/352 "Biochemistry I/II" (if 2 semesters required)			
	CHEM 351L "Biochemistry Lab" (if lab required)			
	OGICAL SCIENCES: (2 semesters with Lab)			
_	BIOL 210 "Intro to Cellular & Molecular Biology + Lab"; <b>and</b>			
	BIOL 211 "Intro to Organismal & Population Biology + Lab"			
	BIOL 160 "Microbiology + Lab" (lower-division); <i>or</i>			
	BIOL 367 "Biology of Microorganisms + Lab" (upper-division)			
HUMAN ANATOMY/PHYSIOLOGY: (2 semesters with Lab)				
**Equivalents can also be completed at a community college				
	BIOL 175/176 "Intro to Human Anatomy & Physiology I/II + Lab for Nu	rcina":	or	
	BIOL 177/178 "Intro to Human Anatomy & Physiology I/II + Lab for Kin	-		
	BIOL 177/178 IIILIO to Huillali Aliatolliy & Physiology I/II + Lab for Kill	esiolog	у	
PHYS	SICS: (2 semesters with Lab)			
	PHYS 101/102 "Intro to Physics I/II + Lab"; <b>or</b>			
	PHYS 201/202 "Physics of Mechanics & Sound/Electromagnetism & Op	ntics + I	ah" (calculus-hased): <b>or</b>	
$\overline{\Box}$	PHYS 205/206 "Physics for the Biological Sciences + Lab" (calculus-base		(carearas susea), <b>e</b>	
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ECON	NOMICS: (1 course)			
	ECON 201 "Principles of Microeconomics"; <b>and/or</b>			
	ECON 202 "Principles of Macroeconomics"			
ENGLISH COMPOSITION/LITERATURE: (2 courses)				
	GEW 101 "Principles of Written Communication"; and LTWR 115 "Cri	tical Re	ading & Writing"; <b>or</b>	
	GEW 101 "Principles of Written Communication"; and LTWR 100 "Int			
	LTWR 100 "Intro to Literature"; and LTWR 115 "Critical Reading & Wi			