

**MEDICAL AND HEALTH CAREERS PROGRAM:** The American Association of Colleges of Pharmacy is comprised of 105 U.S. and 9 Canadian colleges and schools of pharmacy. Eight (8) are located in California. ([www.aacp.org](http://www.aacp.org))

The following is an abridged compilation of requirements found in the Pharmacy School Admissions Requirement book (PSAR) for CA schools ONLY. For a complete listing of information for all schools, please visit the individual school website.

**PHARMACY SCHOOL** Required and Recommended Courses according to 2009-10 PSAR

<b>General Chemistry (Inorganic)</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
<u>Required</u>	x	x	x	x	x	x	x	x
Lab	x	x	x	x	x		x	x
Recommended								
Semesters and Quarters	2S/3Q						2S	
Semester Hours, Quarter Hours (Hours = Units)		12SH	8SH	8SH/12QH	12QH 1 year lec/lab		for science mjrs.	8SH
<b>Organic Chemistry</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
<u>Required</u>	x	x	x	x	x	x	x	x
Lab	x	x	x	x	x		x	x
Recommended								
Semesters and Quarters	2S/3Q						2S	
Semester Hours, Quarter Hours (Hours = Units)		12SH	*8SH	8SH/12QH	12QH 1 year lec/lab		for science mjrs.	8SH
<b>General Biology</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
<u>Required</u>	x	x		x	x	x	x	
Lab	x	x		x	x		x	
Recommended								
Semesters and Quarters	2S/3Q						2S	
Semester Hours, Quarter Hours (Hours = Units)		12SH		**8SH/12QH	12QH w/at least 1 lab		for science mjrs.	
<b>Microbiology</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
<u>Required</u>	x	x	x				x	x
Lab	x		x				x	x
Recommended								
Semesters and Quarters	1S/2Q						1S	
Semester Hours, Quarter Hours (Hours = Units)		4SH	4SH				for science mjrs.	4SH medical micro pref.

<b>Molecular Biology</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
Required	x						x	
Lab								
Recommended				x				
Semesters and Quarters							1S	
Semester Hours, Quarter Hours (Hours = Units)	Note below			strongly rec.			for science mjrs.	
<b>Biochemistry</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
Required	x	x					x	x
Lab								
Recommended								
Semesters and Quarters	1S/2Q						1S	6SH
Semester Hours, Quarter Hours (Hours = Units)	Note below	4SH					for science mjrs.	6SH lab optional
<b>Physics</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
Required	x	x		x	x	x	x	
Lab	x	x		x	x		x	
Recommended								
Semesters and Quarters	1S/2Q						2S	
Semester Hours, Quarter Hours (Hours = Units)		12SH		6 SH/8QH elec/magnetism	8QH elec/magnetism		sci/life sci mjrs.	
<b>Calculus</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
Required	x	x	x	x	x	x	x	x
Lab								
Recommended								
Semesters and Quarters	1S/2Q						1S	
Semester Hours, Quarter Hours (Hours = Units)		*6SH	3SH	*6 SH/8QH	8QH 2 courses req.		for science mjrs.	3SH
<b>Anatomy</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
Required	x	x	x					x
Lab			x					x
Recommended								
Semesters and Quarters	1S/2Q							
Semester Hours, Quarter Hours (Hours = Units)	Note below	4 SH	4SH w/physiology					4SH all organ systems
<b>Physiology</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
Required	x		x		x		x	x
Lab			x				x	x
Recommended								
Semesters and Quarters	1S/2Q						1S	
Semester Hours, Quarter Hours (Hours = Units)	Note below		4SH w/anatomy		*4QH		mammalian	4SH

<b>College English /Writing</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
Required		x		x	x	x	x	x
Recommended								
Semesters and Quarters						2S	2S	
Semester Hours, Quarter Hours (Hours = Units)		9SH		6SH/8QH ESL not accepted	8QH ESL not accepted	reading/writing	expository writing	include composition
<b>Intro to Basic Stats</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
Required							x	
Recommended								
Semesters and Quarters							*1S	
Semester Hours, Quarter Hours (Hours = Units)								
<b>Humanities</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
Required					x	x	x	
Semesters and Quarters							2S	
Semester Hours, Quarter Hours (Hours = Units)					28 QH incl. social sci	*28 SH/42 QH liberal arts hrs		
<b>Behavioral Sciences</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
Required				x	x		x	
Semesters and Quarters							1S	
Semester Hours, Quarter Hours (Hours = Units)				3SH/4QH *electives			either psyc or soc	
<b>Psychology</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
Required	x	x				x		
Recommended								
Semesters and Quarters	1S/2Q					1S minimum		
Semester Hours, Quarter Hours (Hours = Units)		4SH						
<b>Sociology</b>	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
Required								
Recommended								
Semesters and Quarters								
Semester Hours, Quarter Hours (Hours = Units)								
<b>Economics</b>	CA Northstate	Loma Linda	Touro	UCSD	UCSF	U of Pacific	USC	Western
Required	x	x		x	x	x	x	
Recommended								
Semesters and Quarters	1S/2Q						1S	
Semester Hours, Quarter Hours (Hours = Units)	macro or micro	4 SH macro or micro		3 SH/4 QH		3SH/4QH	macro or micro	

Speech	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
Public Speaking	x			x	x	x		
Speech Communication		x					x	x
Semesters and Quarters	1S/2Q						1 S	
Semester Hours, Quarter Hours (Hours = Units)		4 SH		3 SH/4 QH	or Debate	3SH/4QH	Interpersonal Comm	3SH
Human Behavior	CA Northstate	Loma Linda	Touro U.	UCSD	UCSF	U. of Pacific	USC	Western U.
(Psync, Soc, Cult, Anthro, or related)				x			x	
Semesters and Quarters							1S	
Semester Hours, Quarter Hours (Hours = Units)				3 SH/4 QH			Sociology or Psync	
Electives				**12SH/18QH	*28QH	28SH/42QH	**2S	6SH
				See Note	See Note	See Note	See Note	See Note
<b>Highlighted in green = required</b>								

\*Contact each school for specific elective courses

Note: Anatomy and Physiology can be a combined course for 1S or 2Q. **Note: Must take either Biochemistry or Cell and Molecular Biology	*Integral and differential Calculus	*Four semester units of Biochemistry may be substituted for the second semester of Organic Chemistry	*Biology w/lab must include cell and molecular biology and the study of the biology of whole animals or humans	*Physiology (whole animal or human physiology.) **Electives: 28 QH required. Must include courses in Public Speaking or Debate; Economics; and Social Science: Introductory cultural anthropology, psychology, or sociology.	Liberal Arts requirement is determined by UOP; contact UOP for list of courses.	*Statistics course is required, but can be for math/sociology/behavioral science majors. **Soc/Behavioral Science and Humanities is required for non-baccalaureate holders.	Electives should be conferred with the school
			*Calculus with analytical geometry required				
			*Human Behavior: (psyc, soc, cultural anthro or related course)				

**\*\*Elective**  
coursework is  
required in the  
Humanities and  
Social Sciences.  
Technical,  
mathematics,  
computer and  
science courses **are**  
**not** acceptable  
elective courses to  
meet HUM/SS  
electives.







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