

Certificate

Pre-Medical and General Science Studies

Our rigorous post-baccalaureate certificate program provides a structured academic preparation for those planning to apply to health professional programs including medical, dental, veterinary, nursing, pharmacy, physician assistant, and physical therapy, among others.

To complete the Pre-Medical and General Science Studies certificate, you must take a minimum of 12 UCLA-equivalent (XL) courses.* Nine of the 12 courses must be chosen from the four core	Financial Aid Available			
disciplines below (a minimum of one course from each area):	Locations:			
 Chemistry (CHEM) Biological Sciences (LIFESCI, PHYSCI, MIMG, or MCD BIO) Math/Statistics (MATH or STATS) 	Westwood Downtown Los Angeles Woodland Hills			
Physics (PHYSICS)	Eligible for:			
The remaining three courses can be selected from these disciplines, or students may choose up to three anthropology, psychology, sociology, or language courses.	International Students VA Benefits			
Completion time: 1.5 years (full-time pace) to 2-2.5 years (part-time pace)	Start any quarter!			

Pre-Med Typical Foundational Courses[^]

The course list below outlines typical Pre-Med program requirements and supplemental courses. Always check with the program to which you plan to apply for actual course requirements before beginning this certificate. To view other medical and health professional typical course sequences, select your desired track: Pre-Physician Assistant, Pre-Dental, Pre-Veterinary and Pre-Physical Therapy.

				Typically Offered [†]			
	COURSE NAME & NUMBER			FALL	WINTER	SPRING	SUMMER
	Equals one year of General Chemistry	General Chemistry for Life Scientists I CHEM XL 14A	4.0	Classroom	Classroom	Classroom	Classroom
		General Chemistry for Life Scientists II CHEM XL 14B	4.0	Classroom	Classroom	Classroom	Classroom
		General and Organic Chemistry Laboratory I CHEM XL 14BL	3.0	Classroom	Classroom	Classroom	Classroom
Chemistry	Equals one year of Organic Chemistry	Structure of Organic Molecules CHEM XL 14C	4.0	Classroom	Classroom	Classroom	Classroom
Che		General and Organic Chemistry Laboratory II CHEM XL 14CL	4.0	Classroom		Classroom	Classroom
		Organic Reactions and Pharmaceuticals CHEM XL 14D	4.0	Classroom	Classroom	Classroom	Classroom
		Biochemistry: Introduction to Structure, Enzymes, and Metabolism CHEM XL 153A	4.0	Classroom	Classroom	Classroom	Classroom
ies	of V	Cell and Molecular Biology LIFESCI XL 7A	5.0	Classroom	Classroom	Classroom	Classroom
Biological Sciences	Equals one year o General Biology	Genetics, Evolution, and Ecology LIFESCI XL 7B	5.0	Classroom	Classroom	Classroom	Classroom
ological		Physiology and Human Biology LIFESCI XL 7C	5.0	Classroom	Classroom	Classroom	Classroom
Bio		Introduction to Laboratory and Scientific Methodology LIFESCI XL 23L	3.0	Classroom	Classroom	Classroom	Classroom

*Courses are equivalent to those taught on UCLA's main campus and are numbered: XL 1-199. Please note, your course of study may vary depending on how many courses you need to fulfill your foundational requirements. It may be more, it may be less. Students who are new to the sciences or are career changers will likely have to take more than the minimum 12 courses.

Contact Us 310-825-7093 humsci@uclaextension.edu

^ Course requirements are specific to the health professional program to which you are applying. While this list outlines "typical" foundational courses, you must verify actual requirements with your program.

[†]Courses in this program are typically offered during the quarters and format(s) outlined above. Scheduling is subject to change at any time by UCLA Extension. Please visit our website for all current course offerings.



Typically Offered

th / stics		Differential and Integral Calculus MATH XL 31A	4.0	Classroom	Classroom	Classroom	Classroom
Math / Statistics		Introduction to Statistical Methods for Life and Health Sciences STATS XL 13	5.0	Classroom	Classroom	Classroom	
	of s	Physics for Life Sciences Majors: Mechanics and Energy PHYSICS XL 5A	5.0	Classroom	Classroom		
Physics	s one year of eral Physics	Physics for Life Sciences Majors: Thermodynamics, Fluids, Waves, Light, and Optics PHYSICS XL 5B	5.0		Classroom	Classroom	
	Equals one General I	Physics for Life Sciences Majors: Electricity, Magnetism, and Modern Physics PHYSICS XL 5C	5.0	Classroom		Classroom	

Pre-Med Supplemental Courses

FIE-IV	ned Supplemental Courses	Typically Offered [†]					
	COURSE NAME & NUMBER	UNITS	FALL	WINTER	SPRING	SUMMER	
Chemistry	Biochemistry: DNA, RNA, and Protein Synthesis CHEM XL 153B	4.0		Classroom	Classroom	Classroom	
Chen	Biochemistry: Biosynthetic and Energy Metabolism and Its Regulation CHEM XL 153C	4.0	Classroom		Classroom		
	Genetics LIFESCI XL 107	5.0	Classroom	Classroom	Classroom	Classroom	
	Introduction to Human Physiology PHYSCI XL 3	5.0	Classroom	Classroom	Classroom	Classroom	
	Introduction to Human Anatomy PHYSCI XL 13	5.0		Classroom	Classroom	Classroom	
ences	Microbiology for Nonmajors MIMG XL 6	4.0	Classroom	Classroom	Classroom	Classroom	
Biological Sciences	Microbiology Laboratory for Professional Schools MIMG XL 100L	3.0	Classroom		Classroom		
Biolog	Introduction to Cell Biology MCD BIO XL 100	5.0		Classroom		Classroom	
	Introductory Virology MIMG XL 102	4.0	Classroom		Classroom		
	Developmental Biology MCD BIO XL 138	5.0	Classroom		Classroom		
	Molecular Biology of Cellular Processes and Experimental Applications of Theory MCD BIO XL 144	5.0	Classroom				
istics	Precalculus MATH XL 1	4.0	Classroom	Classroom	Classroom	Classroom	
Math / Statistics	Integration and Infinite Series MATH XL 31B	4.0	Classroom	Classroom	Classroom	Classroom	
Math	Introduction to Statistical Reasoning STATS XL 10	5.0	Classroom	Classroom	Classroom	Classroom	
Physics	Physics PHYSICS XL 10	4.0		Classroom	Classroom	Classroom	

UCLA Extension also offers post-bacc courses which, while they don't count towards the certificate, can be of value for a more in-depth look at various science and math topics.

Please Note: An application and nonrefundable fee are required to establish candidacy in this program for a period of time covering normal progress toward completion, and may allow you to access a variety of program benefits. Apply Now.

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