

Articulation Agreement by Major
Effective during the 06-07 Academic Year

To: **UCLA**From: **Orange Coast College**

Quarter |

Semester

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====Biology/B.S.====

Listed below are the lower division preparation courses for the major. All courses must be taken for a letter grade. **THIS MAJOR IS HIGHLY SELECTIVE;** a significant number of preparatory courses should be completed prior to transfer. **At minimum, you should complete one year of biology with laboratory, one year of general chemistry with laboratory, one year of calculus and one semester of organic chemistry with laboratory. Completion of a second semester of organic chemistry or one year of calculus-based physics is strongly recommended.** For more information regarding this major and UCLA's transfer selection process, visit www.eeb.ucla.edu/undergraduate.php and www.admissions.ucla.edu .

NOTE : If your college does not offer a two semester sequence in calculus-based physics, it is recommended that you complete Physics 6ABC at UCLA after you transfer.

PLEASE NOTE: The community college courses listed below have been approved to satisfy the preparation requirements for this major at UCLA, but they may not be exact equivalents of the UCLA courses listed.

LIFESCI 1	Evolution, Ecology, and Biodiversity	(5)		BIOL 181	&	Cell & Molecular Biology	(4)
				BIOL 182	&	Zoology	(3)
				BIOL 182L	&	Zoology Laboratory	(1)
				BIOL 183	&	Botany	(3)
				BIOL 183L		Botany Laboratory	(1)
				OR			
				BIOL 181H	&	Honors Cell and Molecular Biology	(4)
				BIOL 182	&	Zoology	(3)
				BIOL 182L	&	Zoology Laboratory	(1)
				BIOL 183	&	Botany	(3)
				BIOL 183L		Botany Laboratory	(1)
				OR			
				BIOL 181	&	Cell & Molecular Biology	(4)
				BIOL 185		Diversity of Organisms	(5)
				OR			
				BIOL 181H	&	Honors Cell and Molecular Biology	(4)
				BIOL 185		Diversity of Organisms	(5)

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Biology/B.S. (continued)

LIFESCI 2	Cells, Tissues, and Organs	(5)	BIOL 181 &	Cell & Molecular Biology	(4)
			BIOL 182	Zoology	(3)
			<u>OR</u>		
			BIOL 181H &	Honors Cell and Molecular Biology	(4)
			BIOL 182	Zoology	(3)
			<u>OR</u>		
			BIOL 181 &	Cell & Molecular Biology	(4)
			BIOL 183	Botany	(3)
			<u>OR</u>		
			BIOL 181H &	Honors Cell and Molecular Biology	(4)
			BIOL 183	Botany	(3)
			<u>OR</u>		
			BIOL 225	Introduction to Physiology	(5)
			<u>OR</u>		
			BIOL 225H	Honors Introductory Physiology	(5)
			<u>OR</u>		
BIOL 181 &	Cell & Molecular Biology	(4)			
BIOL 185	Diversity of Organisms	(5)			
<u>OR</u>					
BIOL 181H &	Honors Cell and Molecular Biology	(4)			
BIOL 185	Diversity of Organisms	(5)			
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LIFESCI 3	Introduction to Molecular Biology	(5)	BIOL 281 &	Molecular Biology 1: Biochemistry	(2)
			BIOL 282	Molecular Biology 2: Molecular Biology	(2)
			<u>OR</u>		
			BIOL 281H &	Honors Molecular Biology 1: Biochemistry	(2)
			BIOL 282H	Honors Molecular Biology 2: Molecular Biology	(2)
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LIFESCI 4	Genetics	(5)	BIOL 283	Genetics	(4)

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Biology/B.S. (continued)

CHEM 20A	&	Chemical Structure	(4)	CHEM 180	&	General Chemistry	(5)
CHEM 20B	&	Chemical Energetics and Change	(4)	CHEM 185		General Chemistry	(5)
CHEM 20L	&	General Chemistry Laboratory	(3)				
CHEM 30AL		General Chemistry Laboratory II	(4)				

NOTE:Courses articulated towards this Statistics requirement will no longer be acceptable for students transferring to UCLA in Fall 2008.

STATS 13		Introduction to Statistical Methods for Life and Health Sciences	(5)	MATH 160		Introduction to Statistics	(3)
					<u>OR</u>		
				MATH 160H		Honors Introduction to Statistics	(3)

MATH 3A		Calculus for Life Sciences Students	(4)	No course articulated			
		AND				AND	
MATH 3B		Calculus for Life Sciences Students	(4)	No course articulated			
		AND				AND	
MATH 3C		Calculus and Probability for Life Sciences Students	(4)	No course articulated			
		OR				OR	
* MATH 31A	&	Differential and Integral Calculus	(4)	MATH 180	&	Calculus 1	(4)
MATH 31B	&	Integration and Infinite Series	(4)	MATH 185		Calculus 2	(4)
					<u>OR</u>		
MATH 32A		Calculus of Several Variables	(4)	MATH 180H	&	Honors Calculus 1	(4)
				MATH 185H		Honors Calculus 2	(4)
					<u>OR</u>		
				MATH 182H	&	Honors Calculus 1 and 2	(5)
				MATH 280		Calculus 3	(4)
					<u>OR</u>		
				MATH 182H	&	Honors Calculus 1 and 2	(5)
				MATH 280H		Honors Calculus 3	(5)

* The one-year community college calculus sequence(s) listed above will meet the three-term(Math 31A, 31B, 32A) UCLA calculus requirement. Please see a counselor in the UCLA major department after transfer to get the whole requirement satisfied.

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PHYSICS 6A	&	Physics for Life Sciences Majors: Mechanics	(5)	PHYS 130	&	General Mechanics/Waves/Thermodynamics	(4)
PHYSICS 6B	&	Physics for Life Sciences Majors: Waves, Electricity, and Magnetism	(5)	PHYS 135		General Electromagnetism/Light/Modern Physics	(4)
PHYSICS 6C		Physics for Life Sciences Majors: Light, Fluids, Thermodynamics, Modern Physics	(5)				
OR				OR			
PHYSICS 1A	&	Physics for Scientists and Engineers: Mechanics	(5)	PHYS 185	&	General Physics: Mechanics, Waves	(4)
PHYSICS 1B	&	Physics for Scientists and Engineers: Oscillations, Waves, Electric and Magnetic Fields	(5)	PHYS 280	&	General Physics: Electricity and Magnetism	(4)
PHYSICS 1C	&	Physics for Scientists and Engineers: Electrodynamics, Optics, and Special Relativity	(5)	PHYS 285		General Physics: Thermodynamics, Light, Relativity, Quantum Physics	(4)
PHYSICS 4AL	&	Physics Laboratory for Scientists and Engineers: Mechanics	(2)				
PHYSICS 4BL		Physics Laboratory for Scientists and Engineers: Electricity and Magnetism	(2)				
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CHEM 30A	&	Chemical Dynamics and Reactivity: Introduction to Organic Chemistry	(4)	CHEM 220	&	Organic Chemistry	(3)
CHEM 30B	&	Organic Chemistry: Reactivity and Synthesis Part I	(4)	CHEM 225	&	Organic Chemistry	(3)
CHEM 30BL		Organic Chemistry Laboratory I	(3)	CHEM 221		Organic Chemistry Laboratory	(2)

END OF MAJOR