

BIOLOGY: BIOLOGICAL SCIENCE BS PATHWAY

Total Units Required: 190 units

Required Course Listings

This breakdown shows a Biology: Biochemical Science BS Pathway to be completed in 4 years at La Sierra University. All courses with a star (*) indicate a prerequisite or multiple prerequisites for the class. Courses with a dagger (†) are only offered in years ending with an odd number (e.g. 2022-2023 school year) and courses with a double dagger (‡) are only offered in years ending with an even number (e.g. 2023-2024 school year). By following the suggested/required sequencing all necessary prerequisite courses will be fulfilled. Please consult the Bulletin, Records, or your Guided Pathways Advisor for more information about prerequisites.

Major Requirements (106 units)			General Education Requirements (84 units)		
Course	Course Title	Units	Course	Course Title	Units
BIOL 111	General Biology I*	4	UNST 101	First Year Seminar	3
BIOL 111A	General Biology Seminar	0	ENGL 111	College Writing I	3
BIOL 111L	General Biology I Lab*	1	ENGL 112	College Writing II*	3
BIOL 112	General Biology II*	4	ENGL 113	College Writing III*	3
BIOL 112L	General Biology II Lab*	1	WDLG 151	World Language I	4
BIOL 113	General Biology III*	4	WDLG 152	World Language II*	4
BIOL 113L	General Biology III Lab*	1	WDLG 153	World Language III*	4
BIOL 205	Sophomore Biology Seminar	2	HLSC 120	Lifetime Fitness	2
BIOL 235	Biostatistics*	4	SSCI 20X-SL	SSCI Theme Course (with Service Learning)	4
BIOL 301	Cell & Molecular Biology*	4	THM1 X00	Theme I Elective	4
BIOL 301L	Cell & Molecular Biology Projects Lab*	1	HUMN 10X	HUMN Theme Course	4
BIOL 302	Genetics*	4	THM2 X00	Theme II Elective	8
BIOL 302L	Genetics Project Lab*	1	RLGN 304	Adventism in Global Perspective*	4
BIOL 304	General Ecology*	4	RELB X00	Theme IIIBiii - Scripture Elective	4
BIOL 304L	General Ecology Lab*	1	THM3 3/400	Theme III Elective Upper Division*	4
BIOL 350	Colloquium	0	THM3 X00	Theme III Elective	4
BIOL 405	Biology Seminar	2	NSCI 40X-SL	NSCI Theme Course (with Service Learning)*	4
BIOL 3/400	Biological Science Upper Division Elective*	20	UNST 404B	Senior Seminar: Religion, Values & Social Responsibility in Biology	4
BIOL 3/400-SL	Biology Upper Division Elective (with Service Learning)*	4	MATH 121	College Algebra	4
CHEM 111	General Chemistry I	4	MATH 122	Trigonometry & Analytical Geometry*	4
CHEM 111L	General Chemistry I Lab	1	elct 3/400	Upper Division Elective	2
CHEM 112	General Chemistry II*	4	elct X00	Elective	4
CHEM 112L	General Chemistry II Lab*	1			
CHEM 113	General Chemistry III*	4			
CHEM 113L	General Chemistry III Lab*	1			
CHEM 281	Organic Chemistry I*	4			
CHEM 281L	Organic Chemistry I Lab*	1			
CHEM 282	Organic Chemistry II*	4			
CHEM 282L	Organic Chemistry II Lab*	1			
MATH 131	Calculus I*	4			
PHYS 231A/B	Physics I (General or University)*	4			
PHYS 231L	General Physics I Lab*	1			
PHYS 232A/B	Physics II (General or University)*	4			
PHYS 232L	General Physics II Lab*	1			
PHYS 233A/B	Physics III (General or University)*	4			
PHYS 233L	General Physics III Lab*	1			

Sequencing

Biology: Biochemical Science BS Pathway in 4 years at La Sierra University.

Year 1			Year 1			Year 1		
Fall Quarter (15 units)			Winter Quarter (17 units)			Spring Quarter (17 units)		
Course	Course Title	Units	Course	Course Title	Units	Course	Course Title	Units
BIOL 111	General Biology I*	4	BIOL 112	General Biology II*	4	BIOL 113	General Biology III*	4
BIOL 111A	General Biology Seminar	0	BIOL 112L	General Biology II Lab*	1	BIOL 113L	General Biology III Lab*	1
BIOL 111L	General Biology I Lab*	1	MATH 122	Trigonometry & Analytical Geometry*	4	MATH 131	Calculus I*	4
MATH 121	College Algebra	4	ENGL 112	College Writing II*	3	ENGL 113	College Writing III*	3
ENGL 111	College Writing I	3	UNST 101	First Year Seminar	1	UNST 101	First Year Seminar	1
HLSC 120	Lifetime Fitness	2	HUMN 10X	HUMN Theme Course	4	THM2 X00	Theme II Elective	4
UNST 101	First Year Seminar	1						
Year 2			Year 2			Year 2		
Fall Quarter (16 units)			Winter Quarter (14 units)			Spring Quarter (16 units)		
Course	Course Title	Units	Course	Course Title	Units	Course	Course Title	Units
BIOL 301	Cell & Molecular Biology*	4	BIOL 205	Sophomore Biology Seminar	2	BIOL 235	Biostatistics*	4
BIOL 301L	Cell & Molecular Biology Projects Lab*	1	BIOL 302	Genetics*	4	BIOL 304	General Ecology*	4
CHEM 111	General Chemistry I	4	BIOL 302L	Genetics Project Lab*	1	BIOL 304L	General Ecology Lab*	1
CHEM 111L	General Chemistry I Lab	1	CHEM 112	General Chemistry II*	4	CHEM 113	General Chemistry III*	4
THM3 X00	Theme III Elective	4	CHEM 112L	General Chemistry II Lab*	1	CHEM 113L	General Chemistry III Lab*	1
elct X00	Elective	2	elct X00	Elective	2	elct 3/400	Upper Division Elective	2
Year 3			Year 3			Year 3		
Fall Quarter (17 units)			Winter Quarter (17 units)			Spring Quarter (16 units)		
Course	Course Title	Units	Course	Course Title	Units	Course	Course Title	Units
BIOL 3/400	Biological Science Upper Division Elective*	4	BIOL 3/400	Biological Science Upper Division Elective*	4	BIOL 350	Colloquium	0
CHEM 281	Organic Chemistry I*	4	CHEM 282	Organic Chemistry II*	4	BIOL 3/400	Biological Science Upper Division Elective*	4
CHEM 281L	Organic Chemistry I Lab*	1	CHEM 282L	Organic Chemistry II Lab*	1	WDLG 153	World Language III*	4
WDLG 151	World Language I	4	WDLG 152	World Language II*	4	THM1 X00	Theme I Elective	4
SSCI 20X-SL	SSCI Theme Course (with Service Learning)	4	THM2 X00	Theme II Elective	4	THM3 3/400	Theme III Elective Upper Division*	4

Year 4			Year 4			Year 4		
Fall Quarter (15 units)			Winter Quarter (17 units)			Spring Quarter (13 units)		
Course	Course Title	Units	Course	Course Title	Units	Course	Course Title	Units
BIOL 405	Biology Seminar	2	BIOL 3/400	Biological Science Upper Division Elective*	4	BIOL 3/400-SL	Biology Upper Division Elective (with Service Learning)*	4
BIOL 3/400	Biological Science Upper Division Elective*	4	PHYS 232A/B	Physics II (General or University)*	4	PHYS 233A/B	Physics III (General or University)*	4
PHYS 231A/B	Physics I (General or University)*	4	PHYS 232L	General Physics II Lab*	1	PHYS 233L	General Physics III Lab*	1
PHYS 231L	General Physics I Lab*	1	RELB X00	Theme IIIBiii - Scripture Elective	4	UNST 404B	Senior Seminar: Religion, Values & Social Responsibility in Biology	4
NSCI 40X-SL	NSCI Theme Course (with Service Learning)*	4	RLGN 304	Adventism in Global Perspective*	4			