

LA SIERRA UNIVERSITY

BIOLOGY: BIOMEDICAL SCIENCE BS PRE-MED PATHWAY

Total Units Required: 190 units

Required Course Listings

This breakdown shows a Biology: Biomedical 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. 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)

| Course | Course Title | Units |
|---------------|--|-------|
| BIOL 111 | General Biology I* | 4 |
| BIOL 111A | General Biology Seminar | 0 |
| BIOL 111L | General Biology I Lab* | 1 |
| BIOL 112 | General Biology II* | 4 |
| BIOL 112L | General Biology II Lab* | 1 |
| BIOL 113 | General Biology III* | 4 |
| BIOL 113L | General Biology III Lab* | 1 |
| BIOL 205 | Sophomore Biology Seminar | 2 |
| BIOL 235 | Biostatistics* | 4 |
| BIOL 301 | Cell & Molecular Biology* | 4 |
| BIOL 301L | Cell & Molecular Biology Projects Lab* | 1 |
| BIOL 302 | Genetics* | 4 |
| BIOL 302L | Genetics Project Lab* | 1 |
| BIOL 304 | General Ecology* | 4 |
| BIOL 304L | General Ecology Lab* | 1 |
| BIOL 350 | Colloquium | 0 |
| BIOL 405 | Biology Seminar | 2 |
| BIOL 3/400-M | Biomedical Science Upper Division Elective* | 20 |
| BIOL 3/400-SL | Biology Upper Division Elective (with Service Learning)* | 4 |
| CHEM 111 | General Chemistry I | 4 |
| CHEM 111L | General Chemistry I Lab | 1 |
| CHEM 112 | General Chemistry II* | 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 |

General Education Requirements (84 units)

| Course | Course Title | Units |
|-------------|---|-------|
| UNST 101 | First Year Seminar | 3 |
| ENGL 111 | College Writing I | 3 |
| ENGL 112 | College Writing II* | 3 |
| ENGL 113 | College Writing III* | 3 |
| WDLG 151 | World Language I | 4 |
| WDLG 152 | World Language II* | 4 |
| WDLG 153 | World Language III* | 4 |
| HLSC 120 | Lifetime Fitness | 2 |
| SSCI 20X-SL | SSCI Theme Course (with Service Learning) | 4 |
| PSYC 104 | General Psychology | 4 |
| HUMN 10X | HUMN Theme Course | 4 |
| THM2 X00 | Theme II Elective | 8 |
| RLGN 304 | Adventism in Global Perspective* | 4 |
| RELB X00 | Theme IIIBiii - Scripture Elective | 4 |
| THM3 3/400 | Theme III Elective Upper Division* | 4 |
| THM3 X00 | Theme III Elective | 4 |
| NSCI 40X-SL | NSCI Theme Course (with Service Learning)* | 4 |
| UNST 404B | Senior Seminar: Religion, Values & Social Responsibility in Biology | 4 |
| MATH 121 | College Algebra | 4 |
| MATH 122 | Trigonometry & Analytical Geometry* | 4 |
| SOCI 104 | General Sociology | 4 |
| elct 3/400 | Upper Division Elective | 2 |

Sequencing

Biology: Biomedical Science BS with Pre-Med 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 | PSYC 104 | General Psychology | 4 |
| UNST 101 | First Year Seminar | 1 | | | | | | |
| Year 2 | | | Year 2 | | | Year 2 | | |
| Fall Quarter (14 units) | | | Winter Quarter (16 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 |
| SSCI 20X-SL | SSCI Theme Course (with Service Learning) | 4 | CHEM 112L | General Chemistry II Lab* | 1 | CHEM 113L | General Chemistry III Lab* | 1 |
| | | | THM2 X00 | Theme II Elective | 4 | elct 3/400 | Upper Division Elective | 2 |
| Year 3 | | | Year 3 | | | Year 3 | | |
| Fall Quarter (17 units) | | | Winter Quarter (14 units) | | | Spring Quarter (14 units) | | |
| Course | Course Title | Units | Course | Course Title | Units | Course | Course Title | Units |
| BIOL 3/400-M | Biomedical Science Upper Division Elective* | 4 | CHEM 281 | Organic Chemistry I* | 4 | BIOL 350 | Colloquium | 0 |
| PHYS 231A/B | Physics I (General or University)* | 4 | CHEM 281L | Organic Chemistry I Lab* | 1 | CHEM 282 | Organic Chemistry II* | 4 |
| PHYS 231L | General Physics I Lab* | 1 | PHYS 232A/B | Physics II (General or University)* | 4 | CHEM 282L | Organic Chemistry II Lab* | 1 |
| WDLG 151 | World Language I | 4 | PHYS 232L | General Physics II Lab* | 1 | PHYS 233A/B | Physics III (General or University)* | 4 |
| SOCI 104 | General Sociology | 4 | WDLG 152 | World Language II* | 4 | PHYS 233L | General Physics III Lab* | 1 |
| | | | | | | WDLG 153 | World Language III* | 4 |
| Year 4 | | | Year 4 | | | Year 4 | | |
| Fall Quarter (18 units) | | | Winter Quarter (16 units) | | | Spring Quarter (16 units) | | |
| Course | Course Title | Units | Course | Course Title | Units | Course | Course Title | Units |
| BIOL 405 | Biology Seminar | 2 | BIOL 3/400-M | Biomedical Science Upper Division Elective* | 4 | BIOL 3/400-M | Biomedical Science Upper Division Elective* | 4 |
| BIOL 3/400-M | Biomedical Science Upper Division Elective* | 4 | BIOL 3/400-M | Biomedical Science Upper Division Elective* | 4 | BIOL 3/400-SL | Biology Upper Division Elective (with Service Learning)* | 4 |
| NSCI 40X-SL | NSCI Theme Course (with Service Learning)* | 4 | RELB X00 | Theme IIIBiii - Scripture Elective | 4 | THM3 3/400 | Theme III Elective Upper Division* | 4 |
| THM2 X00 | Theme II Elective | 4 | RLGN 304 | Adventism in Global Perspective* | 4 | UNST 404B | Senior Seminar: Religion, Values & Social Responsibility in Biology | 4 |
| THM3 X00 | Theme III Elective | 4 | | | | | | |