

Advisor: Dr. Andrea Castillo

This curriculum is recommended for students planning a career in Medical Laboratory Science. Make sure to meet with the MLS advisor, Dr. Castillo.

Required Biology Courses:	(33)
BIOL 171 Biology I	(5)
BIOL 172 Biology II	(5)
BIOL 173 Biology III	(5)
BIOL 270 Biological Investigation	(3)
BIOL 301 Microbiology	(5)
BIOL 310 Fundamentals of Genetics	(5)
BIOL 490 Senior Capstone	(5)

Select <u>one</u> of the following courses:	(5)
BIOL 423 Evolution (5)	
BIOL 440 Ecology (5)	

Select <u>one</u> of the following courses:	(5)
BIOL 436 Cell Biology (5)	
BIOL438 Molecular Biology (5) (preference)	

Select <u>one</u> of the following courses	(4-5)
BIOL 334 Human Anatomy and Physiology III (preference)	(5)
BIOL 351 Principles of Animal Physiology	(4)
BIOL 352 Principles of Plant Physiology	(4)
BIOL 353 Principles of Microbial Physiology (preference)	(4)

*note that BIOL334 has prerequisites BIOL332, BIOL332

Required Supporting Courses:	(34-35)
BIOL 421 Medical Bacteriology	(5)
BIOL 430 Immunology	(5)
CHEM 171 General Chemistry	(5)
CHEM 172 General Chemistry	(5)
CHEM 173 General Chemistry	(5)
CHEM 351 Organic Chemistry, or	(4)
CHEM480 Biochemistry	(5)
MATH 380 Elementary Probability and Statistics, or	(5)
BIOL380 Data analysis for biologists	(5)

NOTE: The MLS Program at Sacred Heart requires 24 quarter credits of biology and 24 quarter credits of chemistry. This is not achieved by taking only organic chemistry (CHEM351 (4)) or biochemistry (CHEM480 (5)).

Discuss possible upper division chemistry course options with the MLS advisor.

Recommended supporting courses

BIOL 460 Hematology	(5)
BIOL 304 Vertebrate Zoology	(5)
BIOL 332 Human Anatomy and Physiology I Biology Majors	(5)
BIOL 333 Human Anatomy and Physiology II Biology Majors	(5)
BIOL 334 Human Anatomy and Physiology III Biology Majors	(5)
CHEM 304 Quantitative Analysis	(6)
CHEM 352 Organic Chemistry	(4)
CHEM 454 Clinical Chemistry	(4)