

B.S. Medical Laboratory Science

2020-21

WEBSITE

<http://www.swau.edu/biological-sciences>

DEPARTMENT PERSONNEL

Chair

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Modern medicine depends on thousands of highly trained laboratory technicians, technologists, and scientists who bear the responsibility of running vital tests on body fluids and tissues. Individuals who want to help treat and prevent disease and who love working in a laboratory will enjoy this rigorous program. Southwestern Adventist University's Bachelor of Science (BS) degree in Medical Laboratory Science (MLS) offers students practical training that essentially guarantees a job in this highly technical field. MLS graduates are in high demand: Nearly every MLS student is offered a position upon completion of the program—usually at the clinical internship site. Agreements with Andrews University and Tarleton State University allow Southwestern students to take their senior year of clinical classes at those institutions while remaining a student of Southwestern Adventist University. In addition, students in the Department of Biological Sciences are presented with rare leadership opportunities through the Biology Club and Pre-Health Professions Club and the potential to work with professors as Laboratory Teaching Assistants and Tutors.

Job Market

Hospital laboratory, Physician/Veterinary office, Reference laboratory, Forensics, Biotech, Industry/Pharmaceutical research, Education, State Health Department.

Job Outlook

Outlook (next 10 years): 13% growth (faster than average)

Source: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook (www.bls.gov/ooh, visited Mar. 15, 2019)

Earnings

Median Pay: \$51,770/year

Source: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook (www.bls.gov/ooh, visited Mar. 15, 2019)



Required Courses

Item #	Title	Credits
BIOL 111	General Biology I	4
BIOL 112	General Biology II	4
BIOL 180	Biology Research Seminar	1
BIOL 318	Microbiology & Immunology	4
BIOL 320	Genetics	4
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
CHEM 231	Organic Chemistry I	4
CHEM 232	Organic Chemistry II	4
CSIS 105	Introduction to Computing	3
	MATH 141 or 180	3-4
	Sub-Total Credits	39-40

Recommended Courses

Item #	Title	Credits
BIOL 455	Immunology	3
CHEM 431	Biochemistry I	3
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4
	Sub-Total Credits	14

Senior Year

Click here to link to [Andrews University Medical Laboratory Science](#) page for a complete list of classes taken during Senior year.

Click here to link to [Tarleton State University Medical Laboratory Science](#) page for a complete list of classes taken during Senior year.

Sample 4 Year Curriculum

General Education Requirements

To view general education requirements for this major please visit: <https://catalog.swau.edu/core-curriculum-for-a-bachelors-degree>

First Year First Semester

Item #	Title	Credits
BIOL 111	General Biology I	4
BIOL 180	Biology Research Seminar	1
CHEM 111	General Chemistry I	4
ENGL 121	Freshman Composition	3
	Religion GE Curriculum Guide	3
UNIV 111	Wellness for Life	2
	Sub-Total Credits	17

First Year Second Semester

Item #	Title	Credits
BIOL 112	General Biology II	4
CHEM 112	General Chemistry II	4
CSIS 105	Introduction to Computing	3
MATH 141	Introduction to Probability and Statistics	3
	Social Science GE Curriculum Guide	3
	Sub-Total Credits	17

Second Year First Semester

Item #	Title	Credits
BIOL 318	Microbiology & Immunology	4
CHEM 231	Organic Chemistry I	4
ENGL 220	Research Writing	3
	History GE Curriculum Guide	3
	Kinesiology GE Curriculum Guide	1
	Kinesiology GE Curriculum Guide	1
	Sub-Total Credits	16

Second Year Second Semester

Item #	Title	Credits
BIOL 320	Genetics	4
CHEM 232	Organic Chemistry II	4
COMM 111	Speech	3
	History GE Curriculum Guide	3
	Religion GE Curriculum Guide	3
	Sub-Total Credits	17

Third Year First Semester

Item #	Title	Credits
CHEM 431	Biochemistry I	3
PHYS 121	General Physics I	4
	Literature GE Curriculum Guide	3
	Religion GE Curriculum Guide	3
	Sub-Total Credits	13

Third Year Second Semester

Item #	Title	Credits
BIOL 455	Immunology	3
	Fine Arts GE Curriculum Guide	3
PHYS 122	General Physics II	4
	Religion GE Curriculum Guide	3
	Sub-Total Credits	13

Fourth Year

Click here to link to [Andrews University Medical Laboratory Science](#) page for a complete list of classes taken during Senior year.

Click here to link to [Tarleton State University Medical Laboratory Science](#) page for a complete list of classes taken during Senior year.