



# MEDICAL LABORATORY SCIENCE

## CAREER PROFILE



Medical laboratory science is a profession that combines the challenges and rewards of medicine and science. In today's laboratories, more than 5 billion tests are performed yearly. These range from a simple premarital blood test to more complex procedures for detecting such diseases as diabetes, anemia, and cancer. These tests performed in the laboratory also help people stay healthy by monitoring the composition of their blood, urine, body fluids, and tissues, which act as early warning signals for diseases. Medical laboratory science is concerned with the accurate performance of these tests to determine the absence, presence, extent, and causes of diseases.

As a vital member of the health care team, the medical laboratory scientist carefully works to uncover clues to disease in blood and other specimens. They may hold life and death in their hands as the information they provide can influence the type of treatment a patient receives.

In their search for data on a patients' health, medical laboratory scientists do more than examine specimens through a microscope. As medical investigators, they are responsible for the operation of complex electronic equipment, computers, and precision instruments costing millions of dollars.

Medical laboratory scientists may pursue diverse career opportunities. Approximately two-thirds work in hospital laboratories. Others are employed in laboratories in physician's offices, clinics, commercial firms, research facilities, the armed forces, the Peace Corps, public health centers, and in veterinary clinics.

consists of three years of prescribed study at Southern and a three-semester senior year at Andrews—the affiliated medical laboratory science program, which is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

Southern's program qualifies a student to take the medical laboratory scientist certification examination offered by the Board of Certification of the American Society for Clinical Pathology. It also meets the requirements of the NAACLS.

Occasionally pre-dental or pre-medical students, or graduating seniors in biology or chemistry may wish to become certified medical laboratory scientists. This is possible if the student plans courses to fulfill Southern's requirements and those of the affiliated medical laboratory science program.

During the fall semester of the third year, students must apply to the Andrews University program for Medical Laboratory Sciences through a separate admission process. Acceptance into the program is determined by the program's Admissions Committee.

- To be eligible for admission, a student must complete all of Southern's course requirements prior to beginning the clinical (senior) year.
- The Andrews clinical program does not accept students with less than a 2.50 GPA on a 4.00 system. To have a competitive application, it is recommended that a 3.00 GPA is maintained.
- Although acceptance to Andrews' program is granted during the winter semester of the junior year, the acceptance is conditional, pending satisfactory completion of the stated admission criteria. Should a student's GPA fall below 2.50 or the student fail a winter semester course, the acceptance to Andrews' program will be rescinded.

## BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCE



Southern Adventist University offers this Bachelor of Science in medical laboratory science—also called medical technology—in conjunction with Andrews University in Berrien Springs, Michigan. The program



For further information on this Allied Health Bachelor of Science degree, please contact:

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MEDICAL LAB SCIENCE CORE		HOURS
ALHT 225	Intro to Medical Lab Science	2
BIOL 151-152	General Biology I & II	8
BIOL 311	Genetics	4
BIOL 329	General Microbiology	3
BIOL 340	Immunology	3
BIOL	Upper Division Elective (Writing)	3
CHEM 151-152	General Chemistry I & II	8
CHEM 311-312	Organic Chemistry I & II	8
MATH 215	Statistics	3

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## SUGGESTED SEQUENCE OF COURSES

YEAR 1		SEMESTER:	1	2
BIOL 151-152	General Biology I & II		4	4
CHEM 151-152	General Chemistry I & II		4	4
ENGL 101-102	Crit Thnk in Ac Rdg & Wrtg I & II		3	3
NOND 101	Southern Connections		1	
PEAC 125	Fitness for Collegiate Life			1
IN-8	PSYC 128 or SOCI 125			3
R-1	RELB 125 or RELT 177		3	
			15	15

YEAR 2		SEMESTER:	1	2
ALHT 225	Intro to Medical Lab Science			2
BIOL 311	Genetics		4	
BIOL 329	General Microbiology			3
CHEM 311-312	Organic Chemistry I & II		4	4
COMM 135	Comm & Pub Spkg		3	
CPT 100	Computer Concepts		1	
MATH 120	Pre-calculus Algebra **			3
IN-6	Historical Perspectives			3
P-1b	Physical Activity		1	1
R-2	RELT 138, 225 or 255		3	
			16	16

YEAR 3		SEMESTER:	1	2
BIOL 340	Immunology		3	
MATH 215	Statistics			3
IN-10	Aesthetic Analysis			3
R-3 or R-4	Upper Division Biblical Studies		3	
BIOL	Upper Division Elective* (Writing)			3
	UD Electives*** (Writing)		10	7
			16	16

YEAR 4		SEMESTER:	1	2
	CLINICAL YEAR (47 Hours) ANDREWS UNIVERSITY			

**TOTAL HOURS** 141

### Christian Service Requirements:

See degree audit or Gen Ed section of online catalog for Christian service requirements (Level One, Two or Three).

**Note:** It is not advisable to take General Biology and General Chemistry concurrently if ACT is below 25.

### Clinical year eligibility requirements:

- 94 credit hours completed
- Grades of C- or better and a GPA of at least 2.5 in the major classes and cognates
- 20 hours of upper division credit including two writing courses are required. One writing course must be in a cognate area and one in a non-cognate area.

\*Recommended: BIOL 315 Human Parasitology (Writing) - Winter, every other year or BIOL 424 Issues in Natural Science & Religion (Writing).

\*\*Waived if taken in high school with a grade of B or higher. Must take an elective class to replace it.

\*\*\*Recommended: PHYS 211-214; CHEM 315, 321, 361; MGMT 334; BIOL 412.