

DEPARTMENT OF MEDICAL LABORATORY SCIENCES

MEDICAL LABORATORY SCIENCES MISSION STATEMENT

In accordance with the goals set forth by the University of Delaware and the College of Health Sciences, it is the mission of the Department of Medical Laboratory Sciences to:

- Provide excellent undergraduate professional education in the Medical Laboratory Sciences,
- Contribute to the health sciences body of knowledge through basic and clinical research, and
- Function as an expert resource within the University community and the mid-Atlantic region regarding all issues related to Medical Laboratory Sciences.

OUTCOME EXPECTATION FOR STUDENTS BASED ON UNIVERSITY, PROGRAM, AND COURSE LEARNING GOALS

The student learning goals and objectives, as stated for each medical laboratory science course, provide the foundation for student achievement of the Medical Laboratory Science Program's student learning goals and objectives. Achievement of the Program's combined goals and objectives is necessary for students to gain the knowledge needed to be successful entry-level medical laboratory scientists, as well as successful on passing the Board of Certification national examination. Additionally, the Medical Laboratory Science Program's student learning goals and objectives support student accomplishment of the University's general education goals for undergraduate students. The University's general education goals support a comprehensive understanding of the liberal arts and sciences. The synergy for this collaborative effort is expressed in the table entitled "University and MLS Program Educational Goals and Objectives".

UNIVERSITY AND MLS PROGRAM EDUCATIONAL GOALS AND OBJECTIVES

UNIVERSITY GENERAL EDUCATION GOALS	MLS PROGRAM EDUCATIONAL GOALS SUPPORT GEN. ED. GOALS	MEDICAL LABORATORY SCIENCE PROGRAM EDUCATIONAL GOALS	MLS PROGRAM EDUCATIONAL OBJECTIVES SUPPORT MLS PROGRAM EDUCATIONAL GOALS	MLS PROGRAM EDUCATIONAL OBJECTIVE SUPPORTS GEN. ED. GOAL(S)	MEDICAL LABORATORY SCIENCE PROGRAM EDUCATIONAL OBJECTIVES
1 Attain effective skills in oral and written communication, quantitative reasoning, and the use of information technology.	GEN. ED. # 1, 2, 3, 7	1 To provide students with an excellent comprehensive education in medical laboratory science leading to a baccalaureate degree.	MLS PROGRAM EDUC. OBJ. # 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16	GEN. ED. #7	1 Demonstrate proper procedures for the collection, safe handling, and analysis of biological specimens.
2 Learn to think critically to solve problems.	GEN. ED. # 1, 2, 3, 4, 7	2 To prepare students to function in career-entry, professional positions as medical laboratory science practitioners for the healthcare environment of the 21 st century.	MLS PROGRAM EDUC. OBJ. # 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16	GEN. ED. #7	2 Utilize scientific principles (e.g., physiology, immunology, biochemistry, molecular biology/genetics, microbiology, etc.), laboratory principles, and methodologies for the clinical setting.
3 Be able to work and learn both independently and collaboratively.	GEN. ED. # 3, 5, 6	3 To prepare students to be life-long learners so as to remain current with advances in medical laboratory science.	MLS PROGRAM EDUC. OBJ. # 12, 13, 14, 15, 16, 17	GEN. ED. #7	3 Perform laboratory testing with accuracy.
4 Engage questions of ethics and recognize responsibilities to self, community, and society at large.	GEN. ED. # 8, 9, 10	4 To prepare students to function in a culturally diverse, global society that demonstrates variations in intellectual expression and human creativity.	MLS PROGRAM EDUC. OBJ. # 18, 19, 20	GEN. ED. #2	4 Evaluate problems that impact on laboratory services and take corrective action.
5 Understand the diverse ways of thinking that underlie the search for knowledge in the arts, humanities, sciences and social sciences.				GEN. ED. #2	5 Operate equipment properly, troubleshoot, and perform preventive and corrective maintenance.
6 Develop the intellectual curiosity, confidence, and engagement that will lead to lifelong learning.				GEN. ED. #7	6 Utilize proper techniques in the performance of all laboratory testing.
7 Develop the ability to integrate academic knowledge with experiences that extend the boundaries of the classroom.				GEN. ED. #2	7 Interpret clinical significance, clinical procedures, and laboratory test data accurately.
8 Expand understanding and appreciation of human creativity and diverse forms of aesthetic and intellectual expression.				GEN. ED. #1	8 Evaluate laboratory data using statistical analysis.
9 Understand the foundations of United States society including the significance of its cultural diversity.				GEN. ED. #2	9 Apply principles of continuous assessment to all laboratory services.
10 Develop an international perspective in order to live and work effectively in an increasingly global society.				GEN. ED. #1, 2	10 Utilize principles of quality assurance and quality improvement for all phases of laboratory services, i.e., pre-analytical, analytical, and post-analytical.
				GEN. ED. #7	11 Comply with established laboratory safety regulations and regulations governing regulatory compliance related to laboratory practice.

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				GEN. ED. #1, 3	12 Communicate, through oral and written skills, effectively and professionally to enable consultative and educational interactions with health care personnel, the public, and patients in order to function successfully as a member of the healthcare team.
				GEN. ED. #4, 6	13 Demonstrate ethical behavior and professionalism, maintain confidentiality of patient information, and participate in continuing education for one's own professional career development.
				GEN. ED. #3	14 Apply principles of educational methodology to educate providers and users of laboratory services.
				GEN. ED. #5	15 Evaluate published scientific studies utilizing knowledge of research design.
				GEN. ED. #1, 2, 3	16 Apply principles and concepts of laboratory operations to critical pathways and clinical decision making, performance improvement, dynamics of healthcare delivery systems in relationship to laboratory services, human resource management, and financial management.
				GEN. ED. #6	17 Demonstrate a commitment to the future of the medical laboratory profession through involvement in a national professional society.
				GEN. ED. #8	18 Demonstrate an understanding of human creativity and of various types of aesthetic and intellectual expression through study of the liberal arts.
				GEN. ED. #9	19 Demonstrate an understanding of the significance of cultural diversity as exhibited within the United States through study of the liberal arts including completion of a multicultural course.
				GEN. ED. #10	20 Demonstrate an understanding of the impact of globalization on society through study of the liberal arts.