

University of Delaware Post-Baccalaureate Categorical Certificate in Medical Laboratory Sciences

Categorical certifications are designed for students who have a baccalaureate degree and are interested in employment in a specific clinical laboratory discipline – hematology, blood banking (transfusion services), clinical chemistry, or microbiology. These certifications are designed for individuals who would like to combine their science background with a career in the growing healthcare professions. The part-time curriculum accommodates those individuals who would like to continue their education without full time commitment. Each categorical track can be completed in as little as 18 months. Interested students should meet with a departmental faculty member to develop an academic plan. Interested candidates should contact the Department of Medical Laboratory Sciences at (302) 831-2849 or email: <mls-dept@udel.edu>.

Individuals who complete the categorical program of study are eligible to take the American Society for Clinical Pathology Board of Certification (ASCP BOC) categorical examination for the respective laboratory discipline. Passing the categorical examination qualifies the individual for certification as a technologist, e.g., M(ASCP) Technologist in Microbiology.

For each categorical certificate program listed, an applicant is required to have a bachelor's degree from an accredited college/university with at least 30 semester hours of biology and/or chemistry courses as outlined below. Minimum grade point index of 2.0 is required for each science prerequisite. Individuals then need to complete a structured program of study in the respective discipline through a NAACLS accredited Medical Laboratory Science Program.

Science Credit Distribution Required for Admission

COURSE REQUIREMENTS FOR ADMISSION	BLOOD BANKING CATEGORICAL	CLINICAL CHEMISTRY CATEGORICAL	HEMATOLOGY CATEGORICAL	MICROBIOLOGY CATEGORICAL
Biological Sciences		14		
Chemistry		16		
Microbiology				16
Biology &/or Chemistry	30		30	14
Total Science Credits	30	30	30	30

Categorical Certificate Program in Blood Banking

MEDT 375	Statistics, Research, and Clinical Laboratory Principles	2
MEDT 380	Clinical Immunology & Medical Virology with Lab	4
MEDT 390	Introduction to Genetics & Molecular Diagnostics	3
MEDT 391	Introduction to Molecular Diagnostics Laboratory	1
MEDT 409/419	Immunochemistry I	2
MEDT 420/421	Immunochemistry II	2
MEDT 461	Laboratory Practice & Leadership I	1
MEDT 471	Laboratory Practice & Leadership II	1
MEDT 479	Clinical Immunochemistry Practicum I and II	6
Total credits for categorical certificate in Blood Banking		22

Categorical Certificate Program in Clinical Chemistry

MEDT 375	Statistics, Research, and Clinical Laboratory Principles	2
MEDT 380	Clinical Immunology & Medical Virology with Lab	4
MEDT 401/411	Clinical Physiological Chemistry I	5
MEDT 403/413	Clinical Physiological Chemistry II	6
MEDT 400	Urinalysis & Body Fluids	2
MEDT 461	Laboratory Practice & Leadership I	1
MEDT 471	Laboratory Practice & Leadership II	1
MEDT 473	Clinical Chemistry Practicum	3
MEDT 472	Clinical Urinalysis Practicum	1
Total credits for categorical certificate in Clinical Chemistry		25

Categorical Certificate Program in Hematology

MEDT 375	Statistics, Research, and Clinical Laboratory Principles	2
MEDT 380	Clinical Immunology & Medical Virology with Lab	4
MEDT 404/414	Hematology I	3
MEDT 405/415	Hematology II	4
MEDT 400	Urinalysis & Body Fluids	2
MEDT 390	Introduction to Genetics & Molecular Diagnostics	3
MEDT 391	Introduction to Molecular Diagnostics Laboratory	1
MEDT 461	Laboratory Practice & Leadership I	1
MEDT 471	Laboratory Practice & Leadership II	1
MEDT 475	Clinical Hematology Practicum	3
MEDT 472	Clinical Urinalysis Practicum	1
Total credits for categorical certificate in Hematology		25

Categorical Certificate Program in Microbiology

MEDT 375	Statistics, Research, and Clinical Laboratory Principles	2
MEDT 380	Clinical Immunology & Medical Virology with Lab	4
MEDT 390	Introduction to Genetics & Molecular Diagnostics	3
MEDT 391	Introduction to Molecular Diagnostics Laboratory	1
MEDT 406/416	Medical Microbiology	5
MEDT 430/431	Diagnostic Bacteriology & Medical Mycology	4
MEDT 461	Laboratory Practice & Leadership I	1
MEDT 471	Laboratory Practice & Leadership II	1
MEDT 477	Clinical Microbiology Practicum	3
Total credits for categorical certificate in Microbiology		24

Categorical Certificate Program in Clinical Chemistry and Hematology (Core Lab)

MEDT 375	Statistics, Research, and Clinical Laboratory Principles	2
MEDT 380	Clinical Immunology & Medical Virology with Lab	4
MEDT 401/411	Clinical Physiological Chemistry I	5
MEDT 403/413	Clinical Physiological Chemistry II	6
MEDT 400	Urinalysis & Body Fluids	2
MEDT 390	Introduction to Genetics & Molecular Diagnostics	3
MEDT 391	Introduction to Molecular Diagnostics Laboratory	1
MEDT 404/414	Hematology I	3
MEDT 405/415	Hematology II	4
MEDT 461	Laboratory Practice & Leadership I	1
MEDT 471	Laboratory Practice & Leadership II	1
MEDT 473	Clinical Chemistry Practicum	3
MEDT 472	Clinical Urinalysis Practicum	1
MEDT 475	Clinical Hematology Practicum	3
Total credits for categorical certificate in Clinical Chemistry and Hematology		39