Department of Medical and Molecular Sciences

Master of Science

Medical Laboratory Sciences - Non-Thesis (MS)

Provide a brief summary of the proposed program and describe the rationale:\*

The MS-MLS for science graduates program is an 66-credit blended (having both online, hybrid and face-to-face instruction) master’s degree for individuals holding a Bachelor of Science in biology, chemistry, or a related major and who are not certified medical technologists or medical laboratory scientists but who desire a career in the clinical laboratory sciences. Upon completion, these individuals will be eligible to take a national examination for certification as a medical laboratory scientist.    Through this degree, students will gain specialized, in-depth professional hands-on skills and leadership competencies preparing them to succeed within the increasingly clinical laboratory sciences sector. The MS in MLS  will allow students to gain defined “bench-focused” technical competency, in addition to training in regulatory and fiscal affairs that impact laboratory management.    Completion of this program, accredited by the National Accrediting Agency for Clinical Laboratory Science (NAACLS), will prepare students to perform clinical laboratory testing and to complete the national certification examination in Medical Laboratory Science, MLS(ASCP).  Following graduation, students can apply their knowledge to meet specific career goals whether it be clinical laboratory practice or management.

List only New Courses that are being currently submitted for this program:\*

MEDT602 Body Fluid Analysis , 1 cr.

MEDT612 Body Fluid Analysis Laboratory, 1 cr.

MEDT607 Clinical Physiological Chemistry I,  3 cr.

MEDT617 Clinical Physiological Chemistry Laboratory I, 2 cr.

MEDT623 Hematology I, 2 cr.

MEDT624 Hematology I Laboratory, 1 cr.

MEDT628 Medical Microbiology, 3 cr.

MEDT629 Medical Microbiology Laboratory, 2 cr.

MEDT609 Immunohematology I, 2 cr.

MEDT619 Immunohematology I Laboratory, 1 cr.

MEDT636 Clinical Physiological Chemistry II, 3 cr.

MEDT637 Clinical Laboratory Instrumentation, 2 cr.

MEDT633 Hematology II, 2 cr.

MEDT634 Hematology II Laboratory, 2 cr.

MEDT638 Diagnostic Bacteriology and Medical Mycology, 2 cr.

MEDT639 Diagnostic Bacteriology and Medical Mycology Laboratory, 2 cr.

MEDT620 Immunohematology II, 2 cr.

MEDT621 Immunohematology II Laboratory, 1 cr.

RESOLUTION, for the establishment of a new non-thesis MS in Medical Laboratory Science. This program will be administered through the Department of Medical and Molecular Sciences in the College of Health Sciences.

WHEREAS, the Department of Medical and Molecular Sciences (MMS) in the College of Health Sciences offers successful laboratory-based educational programs in the area of Medical Laboratory Science, which offer students skills and knowledge necessary for careers in the biomedical and clinical laboratory sciences based  professions, and

WHEREAS, the Department of Medical and Molecular Sciences offers the MS in Medical Sciences to meet the needs of individuals seeking management and leadership positions in the laboratory-based professions, and

WHEREAS, the Department of Medical and Molecular Sciences has received many inquiries over the last several years from individuals who are interested in pursuing an entry-level technologist MS degree in the clinical laboratory sector, and

WHEREAS, graduates of this MS degree in Medical Laboratory Science will have specialized, in-depth professional skills knowledge and will be highly prepared to succeed within the increasingly complex clinical laboratory science-based sector, and

WHEREAS, graduates of the MS degree in the Medical Laboratory Science will receive preparation to sit for the ASCP national certification examination in Medical Laboratory Science, MLS(ASCP), and

WHEREAS, the existing undergraduate and graduate programs within the Department of Medical Laboratory Science already provide the foundational coursework, laboratory teaching and administrative framework for such a program, and,

WHEREAS, the program has received the full support of faculty as well as the faculty in all programs affected by the curriculum, and

WHEREAS, the proposed major contributes to one of the milestones on the University’s “path to prominence” to achieve excellence in professional education;

Be it, therefore, RESOLVED, that the Faculty Senate recommends the approval of the establishment of a new non-thesis MS in Medical Laboratory Science

MS Graduate Core

MEDT 603 Research Design (3cr.)

MEDT 605 Regulatory and Fiscal Issues in Laboratory Management (3cr.)

MEDT 815 Contemporary Topics Research (6cr.)

Clinical Practica

Description

MEDT 673 Advanced Clincal Chemistry/UA Practicum, 3 cr.

MEDT 675 Advanced Clinical Hematology Practicum, 3 cr.

MEDT 677 Advanced Clincal Microbiology Practicum, 3 cr.

MEDDT 679 Advanced Immunohem Practicum, 3 cr.

MLS Core

Description

MEDT602 Body Fluid Analysis , 1cr.

MEDT612 Body Fluid Analysis Laboratory,

1 cr.

MEDT607 Clinical Physiological Chemistry I,  3 cr.

MEDT617 Clinical Physiological Chemistry Laboratory I, 2 cr.

MEDT623 Hematology I, 2 cr.

MEDT624 Hematology I Laboratory, 1 cr.

MEDT628 Medical Microbiology, 3 cr.

MEDT629 Medical Microbiology Laboratory, 2 cr.

MEDT609 Immunohematology I, 2 cr.

MEDT619 Immunohematology I Laboratory, 1 cr.

MEDT636 Clinical Physiological Chemistry II, 3 cr.

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MEDT639 Diagnostic Bacteriology and Medical Mycology Laboratory, 2 cr.

MEDT620 Immunohematology II, 2 cr.

MEDT621 Immunohematology II Laboratory, 1 cr.

MEDT - 603 - Research Design (3cr.)

MEDT - 605 - Regulatory and Fiscal Issues in Laboratory Management (3cr.)

MEDT - 815 - Contemporary Topics Research (6cr.)