Master of Science in Medical Laboratory Science

Thesis Track with Emphasis in Molecular Diagnostics

Required courses (15 credit hours)

- MDLS 5101 Literature Review 1
- MDLS 5220 Medical Genetics 2
- MDLS 5330 Medical Biochemistry 3
- MDLS 5331 Molecular and Cellular Pathology 3
- MDLS 5340 Clinical and Anatomic Pathology 3
- MDLS 5398 Statistical Methods for Healthcare Research 3

Molecular Diagnostics Emphasis (21 credit hours)

- MDLS 5221 Immunopathology 2
- MDLS 5325 Clinical Molecular Microbiology 3
- MDLS 5250 Molecular Diagnostics Techniques I 2
- MDLS 5251 Molecular Diagnostics Techniques II 2
- MDLS 5088 Thesis 6
- MDLS 5099 Practicum, Field Problem or Internship 3
- MDLS Elective * 3

Total 36

*MDLS approved electives include:

- MDLS 5101 (1), MDLS 5202 (2), MDLS 5204 (2), MDLS 5206 (2), MDLS 5174 (1), MDLS 5086 (1-3), MDLS 5090 (1-3), MDLS 5099 (1-3)
- All students must take MDLS 5206
- All new entering students must take MDLS 5174 prior to taking MDLS 5250 and MDLS 5251
- Graduates of Tarleton State University’s Medical Laboratory Science Certificate program may substitute MDLS 5202, MDLS 5204, and MDLS 5206 for MDLS 5340 and MDLS Electives
- Both the thesis and non-thesis Molecular Diagnostics options require a three credit hour practicum, in which students gain exposure and practice molecular techniques

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