

# MEDICAL LABORATORY SCIENCE (MLT TO MLS PATHWAY)

## Contacts

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## Program Description

Professionals in Medical Laboratory Science conduct health screening tests for diabetic and cardiac risk, examine patient specimens for the presence of infectious microorganisms, type and cross-match blood for transfusion, detect specific blood cells to reveal leukemia and measure a patient's response to medications and therapies and develop and manage complex technical systems to assist in performing these tests.

## Curriculum: 4 years

- Credits Required for Admission: Up to 80

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
MLSO 323	Clinical Chemistry I	2
MLSO 341	Clinical Hematology I	2
<b>Credits</b>		<b>4</b>
<b>Spring</b>		
MLSO 324	Clinical Chemistry II	2
MLSO 343	Clinical Hematology II	2
<b>Credits</b>		<b>4</b>
<b>Summer</b>		
MLSO 430	Laboratory Standard & Practice	3
<b>Credits</b>		<b>3</b>
<b>Second Year</b>		
<b>Fall</b>		
MLSO 301	Molecular Biology	3
MLSO 312	Clinical Microbiology I	2
<b>Credits</b>		<b>5</b>
<b>Spring</b>		
MLSO 310	Intro to Molecular Diagnostics	1
MLSO 313	Clinical Microbiology II	2
<b>Credits</b>		<b>3</b>
<b>Summer</b>		
MLSO 376	Urinalysis and Body Fluids	2
<b>Credits</b>		<b>2</b>
<b>Third Year</b>		
<b>Fall</b>		
MLSO 331	Immunology	2
MLSO 351	Immunohematology	2
<b>Credits</b>		<b>4</b>
<b>Spring</b>		
MLSO 352	Immunohematology II	2
MLSO 377	Lab Informatics Fundamentals	3
<b>Credits</b>		<b>5</b>
<b>Summer</b>		
MLSO 379	Special Topics in MLS (or Program Approved Elective)	3
<b>Credits</b>		<b>3</b>

Course	Title	Credits
<b>Fourth Year</b>		
<b>Fall</b>		
MLSO 412	MLS Practicum I	1
MLSO 422	MLS Practicum II	1
MLSO 378	Infection Prevention & Control	3
<b>Credits</b>		<b>5</b>
<b>Spring</b>		
MLSO 375	MLS Seminar	2
MLSO 416	Comprehensive Exam	0
MLSO 442	MLS Practicum III	1
MLSO 454	MLS Practicum IV	1
<b>Credits</b>		<b>4</b>
<b>Total Credits</b>		<b>42</b>

- If at least 79 credits are not transferred at admission, students must complete elective coursework to satisfy the degree requirement of 120 credit hours

## Curriculum: 2 years

- Credits Required for Admission: Up to 80

If at least 79 credits are not transferred at admission, students must complete elective coursework to satisfy the degree requirement of 120 credit hours.

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
MLSO 301	Molecular Biology	3
MLSO 323	Clinical Chemistry I	2
MLSO 341	Clinical Hematology I	2
<b>Credits</b>		<b>7</b>
<b>Spring</b>		
MLSO 310	Intro to Molecular Diagnostics	1
MLSO 324	Clinical Chemistry II	2
MLSO 343	Clinical Hematology II	2
<b>Credits</b>		<b>5</b>
<b>Summer</b>		
MLSO 376	Urinalysis and Body Fluids	2
MLSO 430	Laboratory Standard & Practice	3
MLSO 377	Lab Informatics Fundamentals	3
<b>Credits</b>		<b>8</b>
<b>Second Year</b>		
<b>Fall</b>		
MLSO 312	Clinical Microbiology I	2
MLSO 331	Immunology	2
MLSO 351	Immunohematology	2
<b>Credits</b>		<b>6</b>
<b>Spring</b>		
MLSO 313	Clinical Microbiology II	2
MLSO 352	Immunohematology II	2
MLSO 378	Infection Prevention & Control	3
<b>Credits</b>		<b>7</b>
<b>Summer</b>		
MLSO 375	MLS Seminar	2
MLSO 412	MLS Practicum I	1
MLSO 416	Comprehensive Exam	0
MLSO 422	MLS Practicum II	1
MLSO 442	MLS Practicum III	1
MLSO 454	MLS Practicum IV	1

## 2 Medical Laboratory Science (MLT to MLS Pathway)

Course	Title	Credits
MLSO 379	Special Topics in MLS (or Program Approved Elective)	2-3
<b>Credits</b>		<b>8-9</b>
<b>Total Credits</b>		<b>41-42</b>

- If at least 79 credits are not transferred at admission, students must complete elective coursework to satisfy the degree requirement of 120 credit hours.