

# Medical Laboratory Science

The Medical Laboratory Science (MLS) curriculum requires the completion of 90 credit hours (basic requirements and major requirements) at Kansas State and the completion of 30 credit hours (46 weeks) of clinical training at one of two affiliated hospitals in Kansas City: [North Kansas City Hospital](#) or [Saint Luke's Hospital of Kansas City](#). Both sites are NAACLS accredited. Admission into the clinical portion of the training is competitive and acceptance is not guaranteed. Students are expected to have a minimum grade point average of 2.5 in both overall coursework and the required science courses. After completion of all the requirements for the bachelor's degree in MLS, students are eligible to sit for the [American Society for Clinical Pathology](#) (ASCP) [Board of Certification](#) (BOC), which is the gold standard in certification for MLS professionals.

In addition to the College of Arts and Sciences Basic Requirements, the following courses are required:

## Biology core (27 credit hours)

BIOL 198 – Principles of Biology	<b>Credits: 4</b>
BIOL 340 – Structure and Function of the Human Body or KIN 360 – Anatomy and Physiology	<b>Credits: 4-8</b>
Note: Only four credit hours of physiology is required	
BIOL 450 – Genetics	<b>Credits: 4</b>
BIOL 541 – Cell Biology	<b>Credits: 3</b>
BIOL 455 – Microbiology	<b>Credits: 4</b>
BIOL 670 – Immunology	<b>Credits: 4</b>

## Chemistry/Biochemistry Core (16 credit hours)

CHM 210 - Chemistry I	<b>Credits: 4</b>
CHM 230 - Chemistry II	<b>Credits: 4</b>
CHM 350 - General Organic Chemistry	<b>Credits: 3</b>
CHM 351 - General Organic Chemistry Laboratory	<b>Credits: 2</b>
BIOCH 521 - Biochemistry	<b>Credits: 3</b>

## Quantitative Core (6 credit hours)

MATH 100 - College Algebra	<b>Credits: 3</b>
STAT 325 - Introduction to Statistics or STAT 340 - Biometrics I or STAT 350 - Business and Economic Statistics I	<b>Credits: 3</b>

## Clinical Training

One year clinical experience at hospital in Kansas City DAS 001 – Medical Laboratory Science	<b>Credits: 30</b>
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**Total Credits for the MLS Degree: 120**

**Kansas State Medical Laboratory Science Club:** An opportunity to meet other MLS students and to become involved both professionally and socially. The club holds monthly meetings that feature guest speakers from MLS schools, community service agencies, and practicing medical lab scientist. Find on OrgSync: MLS Club

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