

Medical Laboratory Technician - AAS

AKA Clinical Laboratory Sciences

The 2026-27 academic year is the last year we will admit students in the AAS program.

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AAS in Clinical Lab Sciences Degree Plan (2024-25 and 2025-26)

Arkansas State University- Jonesboro

Clinical Laboratory Science

Associate of Applied Science

Suggested Curriculum 2024-25 and 2025-26

Year 1 FALL

ENG 1003	ENGL 10103	Composition I
CHEM 1011	CHEM 14101	General Chemistry I Lab
CHEM 1013	CHEM 14103	General Chemistry I
MATH 1023	MATH 11003	College Algebra
3 credits		Computer Applications

Year 1 SPRING

ENG 1013	ENGL 10203	Composition II
BIO 2101	BIOL 20001	Microbiology Lab
BIO 2103	BIOL 20003	Microbiology
BIO 2221	BIOL 24101	Human A&P II Lab
BIO 2223	BIOL 24103	Human A&P II
CLS 1512	MLSC 11532	Principles of CLS*
CLS 1511	MLSC 11541	Principles of CLS Lab*

Year 2 FALL

CLS 2521	MLSC 22581	Hematology I Lab
CLS 2523	MLSC 22553	Hematology I
CLS 2541	MLSC 22541	Clinical Chemistry I Lab

Year 2 SPRING

CLS 1531	MLSC 11531	Body Fluids Lab
CLS 1521	MLSC 21101	Body Fluids
CLS 2531	MLSC 22531	Clinical Microbiology I Lab

CLS 2543	MLSC 22543	Clinical Chemistry I	CLS 2533	MLSC 22533	Clinical Microbiology I
CLS 2571	MLSC 22571	Immunology Lab	CLS 2561	MLSC 22561	Immunohematology I Lab
CLS 2573	MLSC 22573	Immunology I	CLS 2563	MLSC 22563	Immunohematology I
3 credits		US History/Government	CLS 3511	MLSC 42141	Parasitology Lab
			CLS 3512	MLSC 42142	Parasitology

Year 2 SUMMER with May
Interim (or Year 3 FALL)

CLS 2514	MLSC 22534	Clinical Practicum I** (Clinical Chemistry)
CLS 2524	MLSC 22544	Clinical Practicum II** (Hematology)
CLS 3514	MLSC 33504	Clinical Practicum III** (Medical Microbiology)
CLS 3524	MLSC 33604	Clinical Practicum IV** (Blood Bank)
CLS 2551	MLSC 22551	MLT Seminar

*A B or better in CLS 1511 and 1512 is required for admission into the program.

AAS in CLS students must earn a C or better in all science and math courses, and in all CLS courses.

** Clinical Practicums can be taken in any order and are offered Fall, Spring, and Summer.

Upon completion of the curriculum, the student is awarded an associate of applied science degree in Clinical Laboratory Science. Award of this degree is not dependent upon passing the national certification examination offered by the American Society for Clinical Pathology.

AAS in Clinical Laboratory Sciences Course List 2025-26

Courses (72 hours total): *Must have a C or better; **Must have a B or better	Semester offered			Pre-requisite(s)
	Fall	Spring	Summer	
CLS 1003/MLSC 11003 Making Connections (not required for transfer students)	x			
General Education (19 hours)				
*MATH 1023/MATH 11003- College Algebra (or any MATH course that requires MATH 1023 as a prerequisite)	x	x	x	
*ENG 1003/ENGL 10103 Composition I	x	x	x	
*ENG 1013/ENGL 10203 Composition II	x	x	x	
*BIO 2101+2103/BIOL 20001+20003 - Microbiology for Nursing and Allied Health + Lab	x	x		
3 hours of computer applications	x	x	x	
3 hours of US History/Government	x	x	x	

Major Core Courses/Program Pre-requisites (11 hours):

*BIO 2221+2223/BIOL 24101+24103 - Human Anatomy and Physiology II + Lab	x	x	x	
*CHEM 1011+1013/14201+1 4203 - General Chemistry I + lab	x	x	x	
**CLS 1511+1512/MLSC 11541+11532 - Principles of Clinical Laboratory Science + Lab	x	x		

CLS Program (28 hours) – Application Required by April 15th

*CLS 2521+2523/MLSC 22581+22553 - Hematology I + Lab	x			CLS 1511+1512/MLSC 11541+11532
*CLS 2541+2543/MLSC 22541+22543 - Clinical Chemistry I + Lab	x			CHEM 1011+1013/ 14201+14203
				CLS 1511+1512/MLSC 11541+11532
*CLS 2571+2573/MLSC 22571+22573 - Clinical Immunology and Serology + Lab	x			BIO 2221+2223/BIOL 24101+24103
*CLS 1521+1531/MLSC 11531+21101 - Urine and Body Fluid Analysis + Lab		x		CLS 1511+1512/MLSC 11541+11532
*CLS 2531+2533/MLSC 22531+22533 - Medical Microbiology I + Lab		x		BIO 2101+2103/BIOL 20001+20003

*CLS 3511+3512/MLSC 42141+42142 - Medical Parasitology + Lab		x		BIO 2101+2103/BIOL 20001+20003
*CLS 2561+2563/MLSC 22561+22563 - Immunohematology I + Lab		x		CLS 2571+2573/MLSC 22571+22573
				CLS 2521+2523/MLSC 22581+22553
				BIO 2221+2223/BIOL 24101+24103
*CLS 2551/MLSC 22551 - MLT Seminar (taken with the practicums)	x		x	CLS 2561+2563/MLSC 22561+22563
Clinical Practicums (14 hours) – summer or fall, taken in any order				
*CLS 2514/MLSC 22534 - Clinical Practicum I (Clinical Chemistry)	x	x	x	CLS 2541+2543/MLSC 22541+22543
*CLS 2524/MLSC 22544 - Clinical Practicum II (Hematology)	x	x	x	CLS 2521+2523/MLSC 22581+22553
				CLS 1521+1531/MLSC 11531+21101
*CLS 3514/MLSC 33504 - Clinical Practicum III (Medical Microbiology)	x	x	x	CLS 2531+2533/MLSC 22531+22533
*CLS 3524/MLSC 33604 - Clinical Practicum IV (Blood Bank)	x	x	x	CLS 2561+2563/MLSC 22561+22563

AAS in Clinical Laboratory Sciences Course List 2026-27

Courses (68 hours total): *Must have a C or better; **Must have a B or better	Semester offered			Pre-requisite(s)
	Fall	Spring	Summer	
CLS 1003/MLSC 11003 Making Connections (not required for transfer students)	x			
General Education (19 hours)				
*MATH 11003- College Algebra (or any MATH course that requires MATH 11003 as a prerequisite)	x	x	x	
*ENGL 10103 Composition I	x	x	x	
*ENGL 10203 Composition II	x	x	x	
*BIOL 20001+20003 - Microbiology for Nursing and Allied Health + Lab	x	x		
3 hours of computer applications	x	x	x	
3 hours of US History/Government	x	x	x	

Major Core Courses/Program Pre-requisites (11 hours):

*BIOL 24101+24103 - Human Anatomy and Physiology II + Lab	x	x	x	
*CHEM 14201+14203 - General Chemistry I + Lab	x	x	x	
**MLSC 11541+11532 - Principles of Clinical Laboratory Science + Lab	x	x		

CLS Program (26 hours) – Application Required by April 15th

*MLSC 22581+22553 - Hematology I + Lab	x			MLSC 11541+11532
*MLSC 22541+22543 - Clinical Chemistry I + Lab	x			CHEM 14201+14203
				MLSC 11541+11532
*MLSC 22573 - Clinical Immunodiagnostics	x			BIOL 24103
*MLSC 15501 - Basic Lab Operations Lab	x			
*MLSC 11531+21101 - Urine and Body Fluid Analysis + Lab		x		MLSC 11541+11532
*MLSC 22531+22533 - Medical Microbiology I + Lab		x		BIOL 20001+20003
*MLSC 42141+42142 - Medical Parasitology + Lab		x		BIOL 20001+20003
*MLSC 22561+22563 - Immunohematology I + Lab		x		MLSC 22571+22573
				MLSC 22581+22553

BIOL 24101+24103				
*MLSC 22551 - MLT Seminar (taken with the practicums)	x		x	MLSC 22561+22563
Clinical Practicums (12 hours) – summer or fall, taken in any order				
*MLSC 22533 - Clinical Practicum I (Clinical Chemistry)	x	x	x	MLSC 22541+22543
*MLSC 22543 - Clinical Practicum II (Hematology)	x	x	x	MLSC 22581+22553
				MLSC 11531+21101
*MLSC 33503 - Clinical Practicum III (Medical Microbiology)	x	x	x	MLSC 22531+22533
*MLSC 33603 - Clinical Practicum IV (Blood Bank)	x	x	x	MLSC 22561+22563

AAS in Medical (Clinical) Lab Sciences Degree Plan (2026-27)

Arkansas State University- Jonesboro

Medical Laboratory Science

Associate of Applied Science

Suggested Curriculum 2026-27

Year 1 FALL

ENGL 10103	Composition I
CHEM 14101	General Chemistry I Lab
CHEM 14103	General Chemistry I
MATH 11003	College Algebra
3 credits	Computer Applications

Year 1 SPRING

ENGL 10203	Composition II
BIOL 20001	Microbiology Lab
BIOL 20003	Microbiology
BIOL 24101	Human A&P II Lab
BIOL 24103	Human A&P II
MLSC 11532	Principles of CLS*
MLSC 11541	Principles of CLS Lab*

Year 2 FALL

MLSC 22581	Hematology I Lab
MLSC 22553	Hematology I
MLSC 22541	Clinical Chemistry I Lab
MLSC 22543	Clinical Chemistry I

Year 2 SPRING

MLSC 11531	Body Fluids Lab
MLSC 21101	Body Fluids
MLSC 22531	Clinical Microbiology I Lab
MLSC 22533	Clinical Microbiology I

MLSC 15501	Basic Lab Operations Lab	MLSC 22561	Immunohematology I Lab
MLSC 22573	Clinical Immunodiagnosics	MLSC 22563	Immunohematology I
3 credits	US History/Government	MLSC 42141	Parasitology Lab
		MLSC 42142	Parasitology

Year 2 SUMMER with May
Interim (or Year 3 FALL)

MLSC 22533	Clinical Practicum I** (Clinical Chemistry)
MLSC 22543	Clinical Practicum II** (Hematology)
MLSC 33503	Clinical Practicum III** (Medical Microbiology)
MLSC 33603	Clinical Practicum IV** (Blood Bank)
MLSC 22551	MLT Seminar

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