

COURSE SEQUENCE GUIDE | FULL-TIME ENROLLMENT
Clinical Laboratory Science
Associate in Science | Code: 23024 | 76 credits
Effective Term: Fall 2024 (2247)

Semester 1

Course ID	Course Title	Credits	Pre/Co-requisites
ENC 1101	English Composition I	3	Prerequisite: Student must meet the Developmental Education reading and writing requirements in State Rule 6A-10.0315 (by course, placement score, or eligible exemption).
MGF 1130	Mathematical Thinking	3	Prerequisite: Student must meet the Developmental Education reading and writing requirements in State Rule 6A-10.0315 (by course, placement score, or eligible exemption).
Social Science	AMH 2010, AMH 2020, POS 2041	3	
Semester Credits		9	

Semester 2

Course ID	Course Title	Credits	Pre/Co-requisites
Humanities	ARH 1000, HUM 1020, LIT 2000, MUL 1010, PHI 2010, THE 2000	3	Note: ENC 1101 is a prerequisite to LIT 2000.
BSC 2085	Human Anatomy & Physiology 1	3	Corequisite: BSC 2085L
BSC 2085L	Human Anatomy & Physiology 1 Lab	1	Corequisite: BSC 2085
CHM 1033	Chemistry for Health Sciences	3	Prerequisite: MAT 1033; Corequisite: CMH 1033L
CHM 1033L	Chemistry for Health Sciences Lab	1	Prerequisite: MAT 1033; Corequisite: CHM 1033
Semester Credits		11	

Semester 3

Course ID	Course Title	Credits	Pre/Co-requisites
BSC 2086	Human Anatomy & Physiology 2	3	Prerequisite: BSC 2085; Corequisite: BSC 2026L
BSC 2086L	Human Anatomy & Physiology 2 Lab	1	Prerequisite: BSC 2085, BSC 2085L; Corequisite: BSC 2086
MCB 2010	Microbiology	3	Prerequisites: BSC 2010/2010L; or BSC 2085/2085L; CHM 1045/1045L or CHM 1033/1033L; Corequisite MCB 2010L
MCB 2010L	Microbiology Lab	2	Prerequisites: BSC 2010/2010L; or BSC 2085/2085L; CHM 1045/1045L or CHM 1033/1033L; Corequisite MCB 2010L
Semester Credits		9	

Semester 4 (In Program Milestone)

Course ID	Course Title	Credits	Pre/Co-requisites
MLT 1040L	Fundamentals of Laboratory Operations	1	
MLT 1210C	Clinical Urinalysis Lab	2	
MLT 1300	Clinical Hematology	2	Corequisite: MLT 1300L
MLT 1300L	Clinical Hematology Lab	2	Corequisite: MLT 1300
MLT 1752	Laboratory Mathematics & Quality Control	2	
Semester Credits		9	

Semester 5 (In Program Milestone)

Course ID	Course Title	Credits	Pre/Co-requisites
MLT 1500	Immunology/Serology	2	Prerequisites: BSC 2085, BSC 2086; Corequisite MLT 1500L
MLT 1500L	Immunology/Serology Lab	1	Prerequisites: BSC 2085L, BSC 2086L; Corequisite MLT 1500
MLT 1610	Clinical Chemistry I	2	Prerequisite: CHM 1025; Corequisite: MLT 1610L
MLT 1610L	Clinical Chemistry I Lab	2	Prerequisite: CHM 1025L; Corequisite: MLT 1610
MLT 2440	Clinical Microbiology I	1	Corequisite: MLT 2440L
MLT 2440L	Clinical Microbiology I Lab	1	Corequisite: MLT 2440
Semester Credits		9	

Semester 6 (In Program Milestone)

Course ID	Course Title	Credits	Pre/Co-requisites
MLT 1330	Clinical Coagulation	1	Prerequisite: MLT 1300; Corequisite: MLT 1330L
MLT 1330L	Clinical Coagulation Lab	1	Prerequisite: MLT 1300L; Corequisite: MLT 1330
MLT 2525	Immunohematology	2	Prerequisite: MLT 1500; Corequisite: MLT 2525L
MLT 2525L	Immunohematology Lab	2	Prerequisite: MLT 1500L; Corequisite: MLT 2525
Semester Credits		6	

Semester 7 (In Program Milestone)

Course ID	Course Title	Credits	Pre/Co-requisites
MLT 2403	Clinical Microbiology II	2	Prerequisite: MLT 2440; Corequisite: MLT 2403L
MLT 2403L	Clinical Microbiology II Lab	2	Prerequisite: MLT 2440L; Corequisite: MLT 2403
MLT 2620	Clinical Chemistry 2	2	Prerequisite: MLT 1610; Corequisite: MLT 2620L
MLT 2620L	Clinical Chemistry 2 Lab	1	Prerequisite: MLT 1610L; Corequisite: MLT 2620
MLT 2624L	Special Techniques in Clinical Chemistry	2	Prerequisite: MLT 1610, 1610L; Corequisite: MLT 2620, 2620L
Semester Credits		9	

Semester 8 (In Program Milestone)

Course ID	Course Title	Credits	Pre/Co-requisites
MLT 2807L	Hospital Practicum Immunohematology	3	Prerequisites: MLT 2525, MLT 2525L; Corequisite: MLT 2930
MLT 2809L	Hospital Practicum Hematology	3	Prerequisites: MLT 1300, 1300L, 1330, 1330L; Corequisite: MLT 2930
MLT 2810L	Hospital Practicum Chemistry	3	Prerequisites: MLT 2620, 2620L, 2624L; Corequisite: MLT 2930
MLT 2811L	Hospital Practicum Microbiology	3	Prerequisites: MLT 2403, 2403L; Corequisite: MLT 2930
MLT 2930	Medical Laboratory Technology Seminar	2	Corequisites: MLT 2807L, MLT 2809L, MLT 2810L, MLT 2811L
Semester Credits		14	
Program Total		76	

Academic Pathway at MDC: The AS in Clinical Laboratory Sciences is a pathway to the [BAS in Medical Laboratory Science](#). CGS 1060C must be satisfied for completion of the Associate in Science Degree. Course satisfaction can be accomplished through examination or by successful class attendance in the course. Student must have successfully completed HSC 0003 – Introduction to Health Care (2.5 credits) and HSC 0003L – Introduction to Health Care Lab (.5 credits) prior to applying to the program. To learn more about the courses listed see [College Catalog](#).