

MEDICAL LABORATORY SCIENCE MAJOR
Sample Course Plan 2020-2021***

YEAR	FALL SEMESTER			SPRING SEMESTER			Summer Options
Freshman	CEM 141	General Chemistry	4	WRA	Writing, Rhetoric, American Culture	4	Study Abroad: studyabroad.isp.msu.edu
	CEM 161	Chemistry Lab I	1	BS 161	Cell & Molecular Biology	3	
	MTH 103	College Algebra	3	BS 171	Cell & Molecular Biology Lab	2	
	BLD 121	Survive to Thrive Freshman Seminar	1	MTH 124/132	Survey of Calculus I	3	
	ISS 2XX*	Integrative Studies in Social Sciences	4	CEM 162	Chemistry Laboratory II	1	
				STT 200	Statistical Methods	3	
	Term Credits		13		Term Credits	16	
Sophomore	BLD 213L	Clinical Laboratory Methods	2	CEM 252	Organic Chemistry II	3	Study Abroad
	CEM 251	Organic Chemistry I	3	PHY 232	Introductory Physics II	3	
	PHY 231	Introductory Physics I	3	BLD 313	Quality Medical Laboratory Methods	3	
	PSL 310	Physiology for Pre-Health Professionals	4	BLD 204	Mechanisms of Disease	3	
	IAH 201-211*	Integrative Studies in Arts & Humanities	4	MMG 201	Fundamentals of Microbiology	3	
	Term Credits		16		Term Credits	15	
Junior	BLD 434	Clinical Immunology	3	BLD 302	Clinical Chemistry	2	Study Abroad
	BLD 324	Hematology and Hemostasis	3	BLD 430	Molecular Diagnostics	2	
	BLD 314L	Advanced Clinical Laboratory Methods	1	MMG 365	Medical Microbiology	3	
	BMB 401	Comprehensive Biochemistry	4	MMG 365L	Medical Microbiology Laboratory	1	
	IAH 211+*	Integrative Studies in Arts & Humanities	4	BLD 435	Immunoematology	2	
					Elective	4	
	Term Credits		15		Term Credits	14	
Senior	BLD 402	Advanced Clinical Chemistry	4	BLD 435L	Immunoematology Lab	1	
	MMG 465	Advanced Medical Microbiology	3	BLD 424	Adv. Hematology and Hemostasis	2	
	MMG 465L	Adv. Medical Microbiology Lab	2	BLD 424L	Adv. Hematol, Hemostasis, Urine Lab	1	
	BLD 456	Medical Laboratory Professionalism	2	CEM 333	Instrumental Methods & Apps	3	
	BLD 445	Medical Laboratory Management	1	ISS 3XX*	Integrative Studies in Social Sciences	4	
		Elective	4		Elective	4	
	Term Credits		16		Term Credits	15	
Credits prior to Clinical Courses						120	
Approved course substitutions include:			CLINICAL COURSES (total 14 credits):				
BMB 401(4) - BMB 461(3) and BMB 462(3)			BLD 471L Advanced Clinical Chemistry Lab (3)				
CEM 162(1) - CEM 262 (2)			BLD 473L Advanced Clin Hematology & Body Fluids (3)				
MTH 132(3) - MTH 124 (3)			BLD 475L Advanced Clin Immunology & Immunoematology Lab (2)				
PSL 310(4) - PSL 431(3) and PSL 432(3)			BLD 477L Advanced Clinical Microbiology Lab (3)				
STT 200(3) - STT 201 (4) or STT 231 (3)			BLD 479 Professional Behavior (1)				
*Many of the courses in the Arts and Humanities and Social, Behavioral, and Economic Sciences arenas, emphasize national diversity (designated "N" at the end of the course title), or international and multi-cultural diversity (designated "I" at the end of the course title). Some courses emphasize both national diversity, and international and multi-cultural diversity (designated "D" at the end of the course title). Students must include at least one "N" course and one "I" course in their Integrative Studies programs. A "D" course may meet either an "N" or an "I" requirement but not both			BLD 480 Medical Laboratory Science Examinations I (1)				
			BLD 481 Medical Laboratory Science Examinations II (1)				
			TOTAL CREDITS TO GRADUATE 134				

*** Enrollment in the medical laboratory science major is limited. A new cohort is admitted at the end of the spring semester of the junior year. Applications for admission are due by the end of fall semester of the junior year. Applicant interviews are conducted during the spring semester of junior year. Admission decisions for students admitted to the medical laboratory science major are made following review of final grades from spring semester of junior year. Students are admitted as Biomedical Laboratory Science major until the application process for Medical Laboratory Science is completed.

Eligible for national certification examinations after graduation.
The Bachelor of Science degree program in medical laboratory science has been accredited by the
National Accrediting Agency for Clinical Laboratory Sciences,
5600 N. River Rd., Suite 720 Rosemont, IL 60018-5119 Tel: 773-714-8880

CLINIC AFFILIATES

1. Beaumont Hospital - Troy
Troy, MI
2. Bronson Methodist Hospital
Kalamazoo, MI
3. Covenant Health Care
Saginaw, MI
4. Henry Ford Allegiance Health
Jackson, MI
5. Henry Ford Health System
Detroit, MI
6. Hurley Medical Center
Flint, MI
7. Mercy Health Laboratory
Muskegon, MI
8. Mercy Health Saint Mary's
Grand Rapids, MI
9. Metro Health Univ. of Michigan Health
Grand Rapids, MI
10. Michigan Medicine
Ann Arbor, MI
11. Owosso Memorial Lab
Owosso, MI
12. ProMedica Laboratories
Toledo, OH
13. Sparrow Hospital Lab
Lansing, MI
14. Spectrum Health - Lakeland Core Lab
St. Joseph, MI
15. St. Joseph Mercy Hospital
Ann Arbor, MI



MLS/MSU CLINIC AFFILIATES 2020-2021