

# Clinical Laboratory Sciences – Medical Technology

Bachelor of Science | Comprehensive

First Semester			Second Semester		
Course	Title	Hrs.	Course	Title	Hrs.
GEP 101	First Year Foundations	2	BMS 231	Human Genetics Or BIO 235 (3) and 236 (1)	4
ENG 110	Writing I	3	BMS 300 (231)	Service Learning	1
GEC 104	MTH 130 or higher (MTH 136)	3	COM 115	Fund of Public Speaking	3
CHM 160	Chemistry I	4	CHM 170	Chemistry II	3
CHM 161	Chemistry I Lab	1	CHM 171	Chemistry II Lab	1
BMS 110	Intro to Biomedical Sciences	3	GEC 113	MO and US History	3
BMS 111	Intro to Biomedical Sciences Lab Or substitute BIO 121 (GEC 106) for BMS 110/111	1			
Total Hours		17	Total Hours		15
Third Semester			Fourth Semester		
BMS 307	Human Anatomy	4	PLS 101	American Demo and Cit. (GEC114)	3
CHM 201/202	Organic Chemistry w/lab Or CHM 342 (5)	5	BMS 321 <sup>3</sup>	Biomolecular Interactions OR CHM 352 (3)/353 (2)	4-5
GEC 111	Humanities	3	GEC 116	Public Issues	3
GEC 110	Social & Behavioral Sciences	3	MTH 340	Or PSY 200, BIO 550, QBA 237, SOC 302	3
			BIO 310	Microbiology	5
Total Hours		15	Total Hours		18-19
Fifth Semester			Sixth Semester		
BIO 511	Immunology	4	BMS 308	Human Physiology	4
GEC 110	Social & Behavioral Sciences	3	GEC 109	Physical Sciences	3-4
GEC 105	Writing II	3	GEC 115	Cultural competence	3
GEC 112	The Arts	3		Advisor approved elective	3
BIO 520 (3) <sup>1</sup>	CLS/MT Emphasis Area Course	3-4	BMS 524 (3) <sup>1</sup>	CLS/MT Emphasis Area Course	3
MGT 286 (3) <sup>2</sup>			MGT 340 (3) <sup>2</sup>		
BMS 521 (4) <sup>3</sup>			BMS 525 (4) <sup>3</sup>		
Total Hours		16-17	Total Hours		16-18
Seventh Semester			Eighth Semester		
MTC	Clinical Studies Determined by Clinical Program		MTC	Clinical Studies Determined by Clinical Program	
Total Hours		17-18	Total Hours		17-18

**Tips for Success:** Maintain a GPA >3.0 to be competitive

- Admission to an accredited clinical program is required to complete program.
- Application to a clinical program should be completed before beginning third year.
- Consider online Medical Terminology, LLT 102, for first summer session.

**Degree Requirements:** CLS/MT majors are required to choose an emphasis area from the following:

- <sup>1</sup> Microbiology Emphasis: BIO 520(3) and BMS 524(3)
- <sup>2</sup> Management Emphasis: MGT 286(3) AND 340(3)
- <sup>3</sup> Molecular Diagnostics Emphasis: BMS 321(4), 521(4), and 525(4). Note: BMS 321 may also count as one of the required science courses.

**Advisor approved electives:** BIO 520(3), BMS 321(4), BMS 521(4), BMS 524(3), CHM 352/353(4), CHM 330(5), MGT 286(3), MGT 340(3)

NOTE: MTC coursework is transferred back to MSU for degree completion.