Bachelor of Science in Medical Technology

Program Overview

Manchester University's Bachelor of Science in Medical Technology Program equips you with the sought-after skills and knowledge to excel in the fast-growing healthcare field. Our bachelor's degree in medical technology is an immersive 3+1 program, combining three years of rigorous classroom education with one year of experiential learning in a clinical setting. This program integrates coursework in biology, chemistry and medical technology with hands-on experiences that enhance your diagnostic and analytical skills. As an MU-prepared medical technologist, you'll perform critical laboratory testing essential to detecting, diagnosing and treating diseases. This includes preparing and analyzing body tissue, blood, and fluids to help doctors accurately diagnose and treat patients. Manchester's 3+1 program in medical technology offers a supportive and engaging environment that fosters your academic and professional growth. With the guidance of our expert faculty and access to state-of-the-art facilities, you'll be empowered to make a significant impact in your healthcare career, advancing medical science and improving patient outcomes.

Degree Requirements

To earn this degree, students must have a GPA of 2.0 or higher in the Major as well as an overall GPA of 2.0, complete a minimum of 120 credit hours, and fulfill the course requirements of the program listed below.

*This is a sample plan; specific courses may vary from year to year. Academic advisors will work with each student to develop their individual schedule.

CORE

Major-Specific Required Courses					
BIOL 108/L^	Principles of Biology II/Lab	4			
BIOL 204/L	Fundamentals of Human Physiology/Lab	4			
BIOL 229/L	Introduction to Molecular Biology/Lab	4			
BIOL 313/L	Microbiology/Lab	4			
BIOL 260	Genetics	3			
BIOL 395	Orientation to Research	1			
BIOL 431	Immunology	3			
CHEM 111/R/L^	General Chemistry I/Recitation/Lab	5			
CHEM 113/R/L	General Chemistry II/Recitation/Lab	5			
CHEM 311/R/L	Organic Chemistry I/Recitation/Lab	5			
CHEM 312/R/L	Organic Chemistry II/Recitation/Lab	5			
EXSC 107	Medical Terminology for Allied Health	3			
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Choose 1 of the f	ollowing:	CREDITS			
CHEM 235/L	Analytical Chemistry/Lab	4			
CHEM 405	Biochemistry I	3			
Choose 1 of the following:					
DATA 210	Statistical Analysis	4			
MATH 240	Mathematical Statistics (MATH 122 prereq)	4			
	BIOL 108/L^ BIOL 204/L BIOL 229/L BIOL 313/L BIOL 395 BIOL 431 CHEM 111/R/L^ CHEM 311/R/L CHEM 311/R/L CHEM 312/R/L EXSC 107 Choose 1 of the f CHEM 405 Choose 1 of the f DATA 210	BIOL 108/L^ Principles of Biology II/Lab BIOL 204/L Fundamentals of Human Physiology/Lab BIOL 229/L Introduction to Molecular Biology/Lab BIOL 313/L Microbiology/Lab BIOL 360 Genetics BIOL 395 Orientation to Research BIOL 431 Immunology CHEM 111/R/L^ General Chemistry I/Recitation/Lab CHEM 113/R/L General Chemistry II/Recitation/Lab CHEM 311/R/L Organic Chemistry I/Recitation/Lab CHEM 312/R/L Organic Chemistry II/Recitation/Lab EXSC 107 Medical Terminology for Allied Health Choose 1 of the following: CHEM 405 Biochemistry I Choose 1 of the following: CHO			

Total Program Credits: 120+

MAJOR	*Options
CORE	^CORE equivalent
ELECTIVE/MINOR	
EXPERIENTIAL	

	COKL		CICEDITO
\/		Foundation	
	LA-FWS	First-Year Writing Seminar	3
	LA-FCS	First-Year Communication Seminar	3
	LA-FQR	Quantitative Reasoning	3-4
	LA-FSS	First Year Success Seminar	1
	LA-FCG	Cultural and Global Understanding	3-5
		Exploration	
	LA-EAH	Arts and Humanities	3
	LA-ENS	Natural Sciences	3-6
	LA-ESS	Social Sciences	3-4
		Transformation	
	LA-TFR	Faith, Reason, and Ethics	3
	LA-TBI	Big Issues - 2 courses	6-7
	LA-TCE	Creative Expression	1-3
	Additional	credits to bring total to 120+ credits	CREDITS
$\overline{}$		Electives	
		Experiential Learning	
		,	

CREDITS

Example Course Sequence:

The following is a sample of a semester-by-semester approach to completing this program in 4 years.

YEAR 1							
FIRST SEMESTER							
COURSE		CREDITS		PRI	EREQUISI"	TES	
BIOL 204/L^	Fundamentals of Human Physiology/Lab	4					
CHEM 111/R/L^	General Chemistry I/Recitation/Lab	5	MATH 105 (or higher	placement	-	
LA-FWS	First-Year Writing Seminar	3					
LA-FSS	First Year Success Seminar	1					
LA-FCS	First-Year Communication Seminar	3					
JAN TERM							
COURSE		CREDITS					
SECOND SEMESTER							
COURSE		CREDITS					
BIOL 108/L	Principles of Biology II/Lab	4					
CHEM 113/R/L	General Chemistry II/Recitation/Lab	5	CHEM 111				
EXSC 107	Medical Terminology for Allied Health	1					
LA-TFR	Faith, Reason, and Ethics	3					
ELECTIVE/MINOR		3					
		32					

	YEAR 2		
THIRD SEMESTER			
COURSE		CREDITS	PREREQUISITES
BIOL 229/L	Introduction to Molecular Biology/Lab	4	1 year of biology and 1 year of chemistry
CHEM 311/R/L	Organic Chemistry I/Recitation/Lab	5	C- or higher in CHEM 113
LA-ESS	Social Sciences	3	
LA-EAH	Arts and Humanities	3	
JAN TERM			
COURSE		CREDITS	
ELECTIVE/MINOR		3	
FOURTH SEMESTER			
COURSE		CREDITS	
CHEM 312/R/L	Organic Chemistry II/Recitation/Lab	5	CHEM 311
BIOL 313/L	Microbiology/Lab	4	BIOL 229 or BIOL 260
LA-TCE	Creative Expression	3	
ELECTIVE/MINOR		3	
		33	

YEAR 3							
FIFTH SEMESTER							
COURSE		CREDITS		PR	EREQUISI	TES	
BIOL 260	Genetics	3	BIOL 106,	BIOL 108			
BIOL 431	Immunology	3	BIOL 365 C	or BIOL 31	.3		
BIOL 395	Orientation to Research	1	BIOL 106,	BIOL 108	, FWS or E	NG 111	
LA-FCG	Cultural and Global Understanding	3					
LA-TBI	Big Issues	3					
JAN TERM							
COURSE		CREDITS					
SIXTH SEMESTER							
COURSE		CREDITS					
DATA 210	Statistical Analysis/Lab	4	MATH 105	or higher	placement	t	
CHEM 235/L	Analytical Chemistry/Lab	4	CHEM 113				
LA-TBI	Big Issues	3					
ELECTIVE/MINOR		3					
ELECTIVE/MINOR		3					
		30					•

	YEAR 4		
SEVENTH SEMESTER			
COURSE		CREDITS	PREREQUISITES
EXPERIENTIAL		3	Off-campus in hospital lab
EXPERIENTIAL		3	Off-campus in hospital lab
ELECTIVE/MINOR		3	
ELECTIVE/MINOR		3	
JAN TERM			
COURSE		CREDITS	
EXPERIENTIAL		3	Off-campus in hospital lab
EIGHTH SEMESTER			
COURSE		CREDITS	
EXPERIENTIAL		4	Off-campus in hospital lab
EXPERIENTIAL		3	Off-campus in hospital lab
ELECTIVE/MINOR		3	
		25	
	TOTAL CREDITS	120	