

Cleveland State University
College of Science and Health Professions
Bachelor of Science in Biology - Medical Technology
(4+1 Option)
- NEW FALL 2014 -

First Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
BIO 200/201 Introductory Biology I/Lab	4	X	NS	BIO 310/311 Genetics/Recitation	4	X	
CHM 261/266 General Chemistry I/Lab	4	X	NS	CHM 262/267 General Chemistry II/Lab	4	X	NS
ENG 101 English I	3		W/C	ENG 102 English II	3		W/C
MTH 147, PSY 217^, OR SOC 354^	3	X	M/QL	MTH 347 OR PSY 317^	3	X	M/QL
ASC 101 Introduction to University Life	1		INTRO				
Semester Total	15			Semester Total	14		

Second Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
BIO 266/267 Anatomy & Physiology I/Lab	4	X	NS	BIO 268/269 Anatomy & Physiology II/Lab	4	X	NS
CHM 331/336 Organic Chemistry I/Lab	5	X		BIO 306 Biochemistry & Molecular Biology	3	X	
BIO 400 Orientation for Med Tech Students	1	X		Arts & Humanities Elective	3		A&H
Social Science Elective	3		SS	US Diversity Elective	3		DIV
General Elective*	3						
Semester Total	16			Semester Total	13		

Third Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
BIO 308/309 Cell Biology/Lab	4	X		Medical Technology Elective**	4	X	
General Elective*	3			BIO 414/415 Parasitology/Lab	4	X	
Arts & Humanities Elective (outside the US/ALAAME)	3		A&H	BIO 390 Writing in Biology (Recommended)	2		WAC
African American Experience Elective	3		DIV	Social Science Elective (outside the US/ALAAME)	3		SS
				General Elective*	3		
Semester Total	13			Semester Total	16		

Fourth Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
BIO 412/413 Elements of Immunology/Lab	4	X		BIO 499 Exit Evaluation	0	X	
BIO 495 Seminar	1	X	CAP; SPAC	General Elective*	3		
Medical Technology Elective**	4	X		Medical Technology Elective**	4	X	
BIO 416/417 Microbiology/Lab	5	X		Writing Across the Curriculum Elective	3		WAC
General Elective*	3			General Elective*	3		
				General Elective*	3		
Apply for Spring graduation prior to Sep 9th							
Semester Total	17			Semester Total	16		
Degree Total (as listed in above sample): 120 (120 hours minimum required to earn degree)							

Assumptions: college-level readiness in MTH & ENG; no Foreign Language Deficiency

College/ Program Notes:

The plan above is a suggested guide to ensure that all General Education, College, University, and Major requirements are met within 4 years of study. Students may deviate from the suggested placement of Gen Ed courses, although the M/QL and W/C requirements should be completed during the first year of study.

*General Electives ensure that a student accumulates the minimum credit hour totals needed for graduation. Students must have a **minimum of 120 total credit hours**, of which a **minimum of 42 credit hours** must be upper division (300 or 400-level courses). Depending upon other choices made, students may not need as many electives as indicated above, or may need additional electives.

**Medical Technology Electives must be chosen from a list of approved electives from BIO and CHM

^Only one QL course can be applied to the M/QL requirement. The other course must be an MTH course.

Gen Ed Key:	SS = Social Sciences (two courses, one of which must be focused outside the US**)
INTRO = Introduction to University Life (one course)	A&H = Arts & Humanities (two courses, one must be focused outside the US**)
W/C = Writing/Composition (two courses; C or better required)	DIV = Social Diversity (two courses; one US Diversity and one African American Experience)
M/QL = Mathematics/Quantitative Literacy (two courses)	WAC/SPAC = Writing/Speaking Across the Curriculum (three courses, one in the major; C or better required)
NS = Natural Sciences (two courses, one of which must have a lab)	CAP = Capstone
	** of the SS and A&H courses focused outside the US, one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME)

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Cleveland State University
College of Sciences and Health Professions
Bachelor of Science in Biology - Medical Technology
(3+1 Option**)
- NEW FALL 2014 -

First Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
BIO 200/201 Introductory Biology I/Lab	4	X	NS	CHM 262/267 General Chemistry II/Lab	4	X	NS
CHM 261/266 General Chemistry I/Lab	4	X	NS	ENG 102 English II	3		W/C
ENG 101 English I	3		W/C	MTH 347 OR PSY 317^	3	X	M/QL
MTH 147, PSY 217^, OR SOC 354^	3	X	M/QL	Social Science Elective	3		SS
ASC 101 Introduction to University Life	1		INTRO	General Elective*	3		
Semester Total	15			Semester Total	16		

Second Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
BIO 266/267 Anatomy & Physiology I/Lab	4	X	NS	BIO 268/269 Anatomy & Physiology II/Lab	4	X	NS
CHM 331/336 Organic Chemistry I/Lab	5	X		BIO 306 Biochemistry & Molecular Biology	3	X	
Arts & Humanities Elective (outside the US/ALAAME)	3		A&H	Arts & Humanities Elective	3		A&H
BIO 308/309 Cell Biology/Lab	4	X		Social Science Elective (outside the US/ALAAME)	3		SS
Semester Total	16			Semester Total	13		

Third Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
BIO 412/413 Elements of Immunology/Lab	4	X		BIO 310/311 Genetics & Recitation	4	X	
BIO 416/417 Microbiology/Lab	5	X		BIO 414/415 Parasitology/Lab	4	X	
BIO 400 Orientation for Med Tech Students	1	X		BIO 390 Writing in Biology (Recommended)	2		WAC
US Diversity Elective	3		DIV	BIO 495 Seminar	1	X	CAP; SPAC
Writing Across the Curriculum Elective	3		WAC	BIO 499 Exit Evaluation	0	X	
				African American Experience Elective	3		DIV
Apply to school of medical technology							
Semester Total	16			Semester Total	14		

Fourth Year = Clinical Year - Taken at school of medical technology**

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
Apply for Spring graduation prior to Sep 9th							
Degree Total (as listed in above sample): 90 + 32 from Clinical Year = 122 (120 hours minimum required to earn degree)							

Assumptions: college-level readiness in MTH & ENG; no Foreign Language Deficiency

College/ Program Notes:

The plan above is a suggested guide to ensure that all General Education, College, University, and Major requirements are met within 4 years of study. Students may deviate from the suggested placement of Gen Ed courses, although the M/QL and W/C requirements should be completed during the first year of study.

*Electives ensure that a student accumulates the minimum credit hour totals needed for graduation. Students must have a **minimum of 120 total credit hours**, of which a **minimum of 42 credit hours** must be upper division (300 or 400-level courses). Depending upon other choices made, students may not need as many electives as indicated above, or may need additional electives.

**3 years of study at Cleveland State is followed by 1 year of clinical laboratory training in an affiliated school of medical technology. Students do not enroll at Cleveland State during their 4th year and instead enroll at the school of medical technology (note – students are not eligible for financial aid from Cleveland State during this clinical year). After completion of the 4th year, 32 credit hours are transferred back to Cleveland State and are counted toward the degree. The letter grades earned during the internship appear on the student's records, but are not included in the computation of the grade-point average.

^Only one QL course can be applied to the M/QL requirement. The other course must be an MTH course.

University Notes:

Gen Ed Key:

INTRO = Introduction to University Life (one course)

W/C = Writing/Composition (two courses; C or better required)

M/QL = Mathematics/Quantitative Literacy (two courses)

NS = Natural Sciences (two courses, one of which must have a lab)

SS = Social Sciences (two courses, one of which must be focused outside the US**)

A&H = Arts & Humanities (two courses, one must be focused outside the US**)

DIV = Social Diversity (two courses; one US Diversity and one African American Experience)

WAC/SPAC = Writing/Speaking Across the Curriculum (three courses, one in the major; C or better required)

CAP = Capstone

** of the SS and A&H courses focused outside the US, one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME)

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