

## Bachelor of Science in Biology

Effective Fall 2025

## First Year

First Year							
Fall Semester	Credits	Major	Core	Spring Semester	Credits	Major	Core
Inquiry Launch Elective **	3		IL	ENG 101 College Writing I	3		FYV
BIO 200/201 Introductory Biology I/Lab	4	X	SI	BIO 202/203 Introductory Biology II/Lab	4	X	
CHM 261/266 General Chemistry I/Lab	4	X	SI	CHM 262/267 General Chemistry II/Lab	4	X	
MTH 181^ OR STA 147^^	3 or 4	X	QFR	MTH 182^ OR STA 347^^	3 or 4	X	QFR^
Semester Total	14-15			Semester Total	14-15		

## Second Year

Second Year							
Fall Semester	Credits	Major	Core	Spring Semester	Credits	Major	Core
300 Level BIO Course (from Group A)	4	X		300 Level BIO Course (from Group B)	4	X	
CHM 331/336 Organic Chemistry I/Lab	4	X		Society & Human Behavior Elective	3		SHB
Human Culture & Creativity Elective	3		HCC	Global Human Perspectives Elective	3		GHP
ENG 102 College Writing II	3		RPW	DDL or General Elective^^	3		DDL
				General Elective	3		
Semester Total	14			Semester Total	16		

## Third Year

Third Year							
Fall Semester	Credits	Major	Core	Spring Semester	Credits	Major	Core
300 Level BIO Course (from Group B)	4	X		300 Level BIO Course (from Group A)	4	X	
Biology Elective	4	X		General Elective	3		
PHY 221 OR PHY 241	5	X		BIO 390 Writing in Biology (as BIO Elective)	3	X	WAC
Diversity in Society Elective	3		DiS	PHY 222 OR PHY 242	5	X	
Semester Total	16			Semester Total	15		

## Fourth Year

Fourth Year							
Fall Semester	Credits	Major	Core	Spring Semester	Credits	Major	Core
African-American History & Culture Elective	3		AAHC	BIO 499 Exit Evaluation	0	X	
Biology Elective	4	X		BIO 495 Seminar	2	X	SPAC
General Elective	3			Biology Elective	4	X	
General Elective	3			Biology Elective	4	X	
General Elective	3			General Elective	3		
				General Elective	2		
Semester Total	16			Semester Total	15		

Degree Total hours: 120-122 hours

^MTH 181&182 (8 credits) satisfy the requirements for one QFR course and for either one DDL or a 2nd QFR course. ^^STA 147&347 (6 credits) satisfy the requirement for one QFR course. Another course is needed for the DDL/2nd QFR requirement.

## Core Curriculum Key:

IL = Inquiry Launch (one course)  
 FYV = Finding Your Voice (one course, C or better required)  
 SHB = Society & Human Behavior (one course)  
 SI = Scientific Inquiry (two courses, one lab credit)  
 GHP = Global Human Perspectives (one course)  
 \*\* Inquiry Launch requirement is waived for transfer students.

QFR = Quantitative & Formal Reasoning (one course)  
 RPW = Research & Professional Writing (one course, C or better required)  
 HCC = Human Culture & Creativity (one course)  
 WAC/SPAC = Writing/Speaking Across the Curriculum Req (2 courses, one in the major)  
 AAHC = African-American History & Culture (one course)  
 DiS = Diversity in Society (one course)  
 DDL = Data & Digital Literacy (one course, can be satisfied by a second QFR course)

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Cleveland State University  
**Bachelor of Science in Biology**  
**Medical Laboratory Science**

*Effective Fall 2025*

**First Year**

Fall Semester	Credits	Major	Core	Spring Semester	Credits	Major	Core
Inquiry Launch Elective **	3		IL	ENG 101 College Writing I	3		FYV
BIO 200/201 Introductory Biology I/Lab	4	X	SI	STA 347 Applied Statistics	3	X	
CHM 261/266 General Chemistry I/Lab	4	X	SI	BIO 202/203 Introductory Biology II/Lab	4	X	
STA 147 Statistical Concepts	3	X	QFR	CHM 262/267 General Chemistry II/Lab	4	X	
Semester Total	14			Semester Total	14		

**Second Year**

Fall Semester	Credits	Major	Core	Spring Semester	Credits	Major	Core
BIO 308/309 Cell Biology/Lab	4	X		BIO 306/307 Biochemistry/Recitation	4	X	
CHM 331/336 Organic Chemistry I/Lab	4	X		BIO 310/311 Genetics/Recitation (recommended)	4		
Human Culture & Creativity Elective	3		HCC	Society & Human Behavior Elective	3		SHB
ENG 102 College Writing II	3		RPW	Global Human Perspectives Elective	3		GHP
				DDL or 2nd QFR Elective	3		DDL/QFR
Semester Total	14			Semester Total	17		

**Third Year**

Fall Semester	Credits	Major	Core	Spring Semester	Credits	Major	Core
BIO 390 Writing in Biology (recommended)	3		WAC	BIO 495 Seminar	2	X	SPAC
BIO 412/413 Elements of Immunology/Lab	4	X		BIO 414/415 Parasitology/Lab (recommended)	4		
BIO 416/417 Microbiology/Lab	5	X		BIO 422 Mamm. Phys or HSC 422/450 (rec'd)	3-5		
Diversity in Society Elective	3		DiS	African-American History & Culture Elective	3		AAHC
				General Elective	3		
				BIO 499 Exit Evaluation	0	X	
Semester Total	15			Semester Total	15-17		

**Fourth Year**

**Clinical Year taken at school of Medical Laboratory Science**

Degree Total hours: 89-91 + 32 from clinical year = 121-123 hours

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