

The following table outlines how transfer credits will be applied to the Bachelor of Science in Biology degree at Cleveland State University for students who completed an Associate of Science degree via the Ohio Guaranteed Biology Transfer Pathway. The OGTP designation guarantees the transfer and applicability of credits, but does not guarantee admission to a program. Some bachelor-degree granting programs may be competitive, and students should check with individual institutions for their program admission requirements.

COURSE EQUIVALENCIES FROM THE ASSOCIATE DEGREE	Course Number	Credit Hours
GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36		
Any Ohio Transfer 36 approved First Writing (TME001) course	ENG 100 or ENG 101	3
Calculus I (TMM005)	MTH 181	4
Any Ohio Transfer 36 approved Arts and Humanities course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Arts and Humanities course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Social and Behavioral Sciences course [Introduction to Psychology (OSS015) recommended for pre-medicine]	PSY 101 or Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Social and Behavioral Sciences course [Introduction to Sociology (OSS021) recommended for pre-medicine]	SOC 101 or Ohio Transfer 36 Elective*	3
General Chemistry I with lab (OSC008)	CHM 261 and CHM 266 (to be submitted) ¹	4
General Chemistry II with lab (OSC009)	CHM 262 and CHM 267 (to be submitted) ¹	4
Any Ohio Transfer 36 approved Second Writing (TME002) course	ENG 102	3
Up to 7 additional hours of Ohio Transfer 36 approved courses	Ohio Transfer 36 Electives*	7
PRE-MAJOR/BEGINNING MAJOR		
Biology I (OSC003)	BIO 200 and BIO 201	4
Biology II (OSC004)	BIO 202 and BIO 203	4
Calculus-based Physics I with lab (OSC016) or Algebra-based Physics I with lab (OSC014) or biology course	PHY 221 or PHY 231 or PHY 241	4
OTHER RECOMMENDATIONS		
Full-Year Sequence of Organic Chemistry with lab (OSC010) [Not required but highly recommended for pre-medicine]	CHM 331, CHM 336, CHM 332, and CHM 337 (to be submitted) ¹	8
Electives	Varies*	0-6
TOTAL HOURS FROM ASSOCIATE DEGREE:		60-65
Advising Notes: (*) Indicates that coursework will be evaluated for applicable equivalency upon transfer at the university. If a Transfer Assurance Guide (TAG) course is taken, the approved course equivalency will be awarded. ¹ "To be submitted" indicate that the course does not currently carry the statewide course equivalency guarantee. However, the institution is working toward this goal and will act in good faith to ensure the appropriate equivalency is given that counts toward the degree.		

The following additional coursework will be required to complete the Bachelor of Science in Biology degree at Cleveland State University after a student has completed an Associate of Science Ohio Guaranteed Biology Transfer Pathway degree. Some bachelor-degree granting programs may be competitive and admission into the program is not guaranteed. Students should check with individual institutions for their program admission requirements.

REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE		Course Number	Credit Hours
Major Requirement:	Organic Chemistry I and Organic Chemistry Laboratory I (if not already completed during the associate degree)	CHM 331 and CHM 336	0-4
Major Requirement:	Calculus II or Statistical Concepts with Applications	MTH 182 or STA 147	3 or 4
Major Requirement:	College Physics II, College Physics II - Biomedical Applications, or University Physics II	PHY 222, PHY 232, or PHY 242	4 or 5
Major Requirement:	Group A Biology Courses with Labs (Choose 2): Plant Biology, Animal Biology, Population Biology and Evolution	Select two with labs: BIO 300 and 301, BIO 302 and 303, BIO 304 and 305	8
Major Requirement:	Group B Biology Courses with Labs (Choose 2): Biochemistry, Cell Biology, Genetics	Select two with labs: BIO 306 and 307, BIO 308 and 309, BIO 310 and 311	8
Major Requirement:	Writing in Biology I (recommended) ¹	BIO 390	3
Major Requirement:	Biology Electives	Varies	16
Major Requirement:	Seminar	BIO 495	2
Major Requirement:	Exit Evaluation	BIO 499	0
General Electives:	General Electives ²	Varies	9-16
REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE TOTAL:³			55-60
Advising Notes:			
¹ BIO 390 Writing in Biology I is not a required course, but is recommended as it counts as both a Biology Elective and a Writing Across the Curriculum course. If BIO 390 is not taken, then an additional 3 credit hours of Biology Electives and a WAC course will need to be completed.			
² The College of Sciences and Health Professions requires that students successfully complete a minimum of 42 credit hours at the 300- and/or 400-level.			
³ CSU requires a total of 120 credits hours for the B.S. in Biology. The total number of hours to complete the bachelor's degree represents a range of hours that may be needed depending on the individual course selections made during the associate degree program.			

COMPLETE BACHELOR'S DEGREE	Total Credit Hours
BACHELOR'S DEGREE TOTAL:	120

SPECIAL NOTES
For more information, please contact: College of Sciences and Health Professions Advising Center coshpadvising@csuohio.edu (216) 687-9321 https://www.csuohio.edu/sciences/advising

SAMPLE DEGREE MAP

THIRD YEAR

SEMESTER 5		SEMESTER 6	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
Group A Biology Course with Lab	4	Group B Biology Course with Lab	4
Group B Biology Course with Lab	4	Biology Elective	4
MTH 182 or STA 147 Calculus II or Statistical Concepts with Applications	3-4	BIO 390 Writing in Biology I	3
Group A Biology Course with Lab	4	PHY 222 College Physics II, PHY 232 College Physics II - Biomedical Applications, or PHY 242 or University Physics II	4-5
Total Semester 5 Credit Hours	15-16	Total Semester 6 Credit Hours	15-16

FOURTH YEAR

SEMESTER 7		SEMESTER 8	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
Biology Elective	4	BIO 499 Exit Evaluation	0
Biology Elective	4	BIO 495 Seminar	2
General Elective	3	Biology Elective	4
General Elective	2-5	General Elective	3
		General Elective	3
Total Semester 7 Credit Hours	13-16	Total Semester 8 Credit Hours	12