

Wright State University
Biology
Bachelor of Science

Effective beginning Academic Year 2024-25 (Last revised February 16, 2024)

The following table outlines how transfer credits will be applied to the Bachelor of Science in Biological Sciences degree at Wright 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 1100	3
Calculus I (TMM005) or Life Science Calculus I (TMM024) ¹	MTH 2300 or MTH 2240	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 1010 or Ohio Transfer 36 Elective*	3-4
Any Ohio Transfer 36 approved Social and Behavioral Sciences course [Introduction to Sociology (OSS021) recommended for pre-medicine]	SOC 2000 or Ohio Transfer 36 Elective*	3
General Chemistry I with lab (OSC008)	CHM 1210/L	5
General Chemistry II with lab (OSC009)	CHM 1220/L	5
Any Ohio Transfer 36 approved Second Writing (TME002) course	ENG 2100	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 1120	4
Biology II (OSC004)	BIO 1150	4
Genetics (OSC028) or Calculus-based Physics I with lab (OSC016) or Algebra-based Physics I with lab (OSC014) or biology course	BIO 2110 (to be submitted) ² or PHY 1110/L	3-5
OTHER RECOMMENDATIONS		
Full-Year Sequence of Organic Chemistry with lab (OSC010)	CHM 2110/L and CHM 2120/L	10
General Electives ³	Varies*	0-5
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 A prerequisite may be needed for a student to reach Calculus I (TMM005) or Life Science Calculus I (TMM024). The math requirement may vary by institution, and students planning to pursue a Bachelor of Arts in Biology may only need Pre-Calculus (TMM002). Check with your academic advisor and your receiving institution to determine the appropriate mathematics course. ² "To be submitted" indicates that the course does not currently carry the statewide course equivalency guarantee. However, the institution is working towards this goal and will act in good faith to ensure the appropriate equivalency is given that counts toward the degree. ³ Wright State University recommends students complete Introductory Statistics (TMM010) equivalent to STT 2640 at WSU and Algebra-Based Physics I and/or II (OSC 014 and/or 015) equivalent to PHY 1110/L and/or 1120/L at WSU as part of the Ohio Transfer 36.		

SPECIAL NOTES

Students with plans of pursuing a pre-professional or graduate studies track in the future should work closely with their academic advisor and receiving institution starting in the first year of their program in order to adequately prepare themselves for those types of tracks. Some pre-professional degrees include pre-medicine, pre-veterinary, pre-law, and pre-dentistry.

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The following additional coursework will be required to complete the Bachelor of Science in Biological Sciences degree at Wright State University after a student has completed their 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
Departmental Core Requirements:	Freshman Seminar Bio Sciences (Waived from this requirement with associate degree completion)	BIO 1100	0-1
Departmental Core Requirements:	Orientation Seminar in Biological Sciences	BIO 2100	1
Departmental Core Requirements:	Principles of Molecular and Classical Genetics (if not completed during the associate degree program) or Principles of Physics I/ Lab	BIO 2110 or PHY 1110/L	3-5
Departmental Core Requirements:	Cell Biology	BIO 2120	3
Departmental Core Requirements:	Introduction to Cell Biology Laboratory	BIO 2140	2.5
Departmental Core Requirements:	Evolution and Ecology & Laboratory	BIO 2310/L	4
Departmental Core Requirements:	Molecular Biology Laboratory	BIO 3140	3.5
Related Course Requirements:	Principles of Physics II & Laboratory (if not completed during the associate degree program)	PHY 1120/L	0-5
Related Course Requirements:	Statistical Concepts or Elementary Statistics (if not completed during the associate degree program)	STT 1600 or STT 2640	0-4
General Electives:	General Electives	Varies	0-8
AVAILABLE CONCENTRATIONS: GENERAL, CELL/MOLECULAR BIOLOGY AND HEALTH SCIENCES, AND ECOLOGY, EVOLUTION, AND ORGANISMAL BIOLOGY			
General:	Departmental Elective (Including a Senior Capstone Course)	Varies	30
Cell/Molecular Biology and Health Sciences:	Advanced Molecular Biology	BIO 4420	3
	Advanced Cell Biology	BIO 4460	3
	Departmental Elective (Including a Senior Capstone Course)	Varies	21
	Fundamentals of Biochemistry or Biochemistry and Molecular Biology I	BMB 4001 or BMB 4210	3
Ecology, Evolution, and Organismal Biology:	Departmental Elective (Including a Senior Capstone Course) – A Minimum of 20 Hours from Approved Lists Including At Least One Course from Each of the Three Cores: Ecology, Evolution, and Organismal Biology	Varies	30
REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE TOTAL:²			58-60
Advising Notes:			
¹ All College of Science and Mathematics courses must be a C or better for degree credit.			
² Wright State University requires a total of 120 credit hours for degree completion. The total number of hours to complete a 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:
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<https://science-math.wright.edu/biology>

SAMPLE DEGREE MAP

THIRD YEAR

SEMESTER 5		SEMESTER 6	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
BIO 2100 Orientation Seminar in Biological Sciences	1	BIO 2120 Cell Biology	3
BIO 2110 Principles of Molecular and Classical Genetics (if not completed during the associate degree program) or PHY 1110/L Principles of Physics I	3-5	BIO 2140 Introduction to Cell Biology Laboratory	2.5
BIO 2310/L Evolution and Ecology & Laboratory	4	PHY 1120/L Principles of Physics II & Lab	5
BIO 3140 Molecular Genetics Laboratory	3.5	Departmental Elective	3
STT 1600 or STT 2640 Statistical Concepts or Elementary Statistics (if not completed during the associate degree program)	0-4	Departmental Elective	3
General Elective Credit	0-4		
Total Semester 5 Credit Hours	15.5	Total Semester 6 Credit Hours	16.5

FOURTH YEAR

SEMESTER 7		SEMESTER 8	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
Departmental Core or Elective (Depending on the Concentration)	3	Departmental Core or Elective (Depending on the Concentration)	3
Departmental Elective or Related Course Requirement (Depending on the Concentration)	3	Senior Capstone	1-3
Departmental Elective	3	Departmental Elective	3
Departmental Elective	3	Departmental Elective	0-2
Departmental Elective	3	Departmental Elective	0-4
Total Semester 7 Credit Hours	15	Total Semester 8 Credit Hours	9-13