

**Pathway for Associate of Science at Gateway Community & Technical College
to
Bachelor of Science in Applied Biology at Miami University Regionals**

Catalog Year: 2023-2024

Description

Miami University and Gateway Community & Technical College are parties to an agreement titled Institutional Articulation Agreement between Miami University and Kentucky Community & Technical College System entered into on July 28, 2022 (the "[Agreement](#)"). This Pathway is entered into pursuant to the terms and conditions of the Agreement, and is hereby incorporated into the Agreement by this reference. Except as otherwise set forth, the Agreement is unaffected and shall continue in full force and effect in accordance with its terms.

The Associate of Science degree at Gateway Community & Technical College partners well with the Bachelor of Science in Applied Biology degree at Miami University.

To graduate with the Bachelor of Science degree in Commerce students must first meet all Miami University admission requirements noted on this on the [Admissions & Aid website](#). Students must also meet Miami's [general requirements for graduation](#), including: (1) completion of 124 credit hours; (2) completion of a minimum of 30 credit hours at Miami of which the final 12 credit hours must be taken at Miami; and (3) attainment of a minimum of a 2.00 cumulative grade point average at the time of graduation.

The plan of study below illustrates: (1) how a student can complete an Associate of Science degree at Gateway Community & Technical College and how those courses transfer to Miami University, and (2) what courses the student needs to complete at Miami in order to earn the Bachelor of Science in Applied Biology degree. Please note the matches in this document indicate specific courses you may be awarded after successfully completing those courses and transferring to Miami University.

Successful completion of an A.A. or an A.S. at KCTCS will allow students to fulfill general education (Miami Plan) requirements at Miami University including English Composition (3), Advanced Writing (3), Social Science (6), Humanities (3), Arts (3), Math/Formal Reasoning (3), and Natural Science with Lab (6), Global Citizenship (3), Intercultural Consciousness (3), plus nine credits of Signature Inquiry Requirements. Students will also need to complete coursework in Global Citizenship (Intercultural Consciousness or Global Inquiry for 3 credits), Knowledge in Action: Experiential Learning (0 credits), and a Senior Capstone (3 credits).

Courses that do not have a Miami University equivalent will be recorded as "T" courses on the student's Miami University academic record. With the assistance of an academic advisor, students can petition for some "T" courses to count toward Miami University degree requirements.

Category 1: Gateway General Education Core Requirements

Gateway Course	Course or Category	Credits	Miami Course	Completed
ENG 101	Writing I (WC)	3	ENG 111	
ENG 102	Writing II (WC)	3	ENG 112	
TBS XXX	Oral Communication (OC)	3	TBD XXX	
Choose 1: HIS 101 HIS 102	Choose 1: World Civilization I (AH) World Civilization II (AH)	3	HST 197 HST 198	
TBS XXX	Arts & Humanities (AH) Humanities	3	TBD XXX	
ECO 201 or POL 101	Microeconomics or American Government (SB)	3	ECO 201 or POL 241	
Choose 1: ANT 160 COM 254	Choose 1: Cultural Diversity in the Modern World (SB) Intro to Intercultural Communication (SB)	3	ATH 175 STC 236	
MAT 150	College Algebra	3	MTH 122	
STA 220	Statistics (QR)	3	STA 261	
BIO 114 & 115	Biology I and Lab	4	BIO 116	
BIO 116 & 117	Biology II and Lab	4	BIO 115	
	Subtotal General Education Core Courses	35		

TBS XXX means to be selected by Gateway student.

TBD XXX means to be determined by Miami based on course selected.

For Social and Behavioral Sciences courses, two disciplines must be represented and different from those in the Arts and Humanities category.

Category 2: Gateway AS Requirements

Gateway Course	Course or Category	Credits	Miami Course	Completed
CHE 170 & 175	General College Chem I with Lab	5	CHM 141 & 144	
CHE 180 & 185	General College Chem II with Lab	5	CHM 142 & 145	
	Subtotal AS Requirement Courses	10		

Category 3: Gateway Electives

Gateway Course	Course or Category	Credits	Miami Course	Completed
FYE 105	Achieving Academic Success	3	EDL 100 + TCE 110	
OST 105	Introduction to Information Systems (DL)	3	CIT 154	
GLY 140 OR PHY 151 & 161	Oceanography (for Environmental Biology Concentration) OR Intro Physics with Lab (for Human Biology Concentration)	3-4	GLG 244 OR PHY 161	
TBS XXX	Elective*	3	TBD XXX	
TBS XXX	Elective*	3	TBD XXX	
	Subtotal Elective Courses	15		
	TOTAL Associate Degree Hours	60		

Degree Requirement: One course must be selected from the KCTCS identified Cultural Competence course list in the KCTCS catalog.

*Students in the Applied Biology major in either concentration must complete one of the following minors:

- Applied Social Research Minor
- Commerce Minor
- Data Intelligence Minor
- Forensic Investigation Minor
- GIS Certificate
- Psychological Science Minor
- Self-Designed Tool (department approval required)

Courses required for these minors may be offered at Gateway Community College for students to take prior to transfer. You can find more information about the requirements of these minors in the [Miami Bulletin](#).

Category 4: Miami University Courses Human Biology and Health Sciences Concentration

Miami Course Number	Course Title	Credits	Completed
BIO 115	Biological Concepts: Ecology, Evolution, Genetics, and Diversity	4	Taken at GCTC
BIO 116	Biological Concepts: Structure, Function, Cellular, and Molecular Biology	4	Taken at GCTC
BIO 201	Human Anatomy	4	
BIO 203	Introduction to Cell Biology	3	
BIO 206 OR BIO 209	Evolutionary Biology or Fundamentals of Ecology	3	
BIO 305	Human Physiology	4	
BIO 342	Genetics	3	
BSC 292	Applied Biology Sophomore Seminar	1	
BSC 492	Applied Biology Senior Seminar	1	
TBD XXX	Professional Courses (300 or 400 level)	6	
TBD 4XX	Professional Courses (400 level)	3	
CHM 141	College Chemistry	4	Taken at GCTC
CHM 142	College Chemistry	3	Taken at GCTC
CHM 144	College Chemistry Laboratory	2	Taken at GCTC
CHM 145	College Chemistry Laboratory	2	Taken at GCTC
CHM 241 & CHM 244	Organic Chemistry I with lab	5	
CHM 242 & CHM 245	Organic Chemistry II with lab	5	
CHM 332 & CHM332L	Outlines of Biochemistry with Lab	4	
STA 261	Statistics	4	Taken at GCTC
PHY 161	Physics for the Life Sciences with Laboratory I	4	Taken at GCTC
TBD XXX	Courses for selected minor or electives	22*	
	Subtotal Miami Courses	64	
	Associate Degree Hours	60	
	Total Bachelor Degree Hours	124	

Category 4: Miami University Courses Environmental Biology Concentration

Miami Course Number	Course Title	Credits	Completed
BIO 115	Biological Concepts: Ecology, Evolution, Genetics, and Diversity	4	Taken at GCTC
BIO 116	Biological Concepts: Structure, Function, Cellular, and Molecular Biology	4	Taken at GCTC
BIO 206	Evolutionary Biology	3	
BIO 209	Fundamentals of Ecology	3	
BIO 342	Genetics	3	
BSC 292	Applied Biology Sophomore Seminar	1	
BSC 492	Applied Biology Senior Seminar	1	
BIO or BSC 3XX	Required concentration courses (300 level)	9	
TBD XXX	Professional Courses (300 or 400 level)	3	
TBD 4XX	Professional Courses (400 level)	3	
CHM 141	College Chemistry	4	Taken at GCTC
CHM 142	College Chemistry	3	Taken at GCTC
CHM 144	College Chemistry Laboratory	2	Taken at GCTC
CHM 145	College Chemistry Laboratory	2	Taken at GCTC
ECO 201 or POL 241	Principles of Microeconomics or American Political System	3	Taken at GCTC
GLG 121 & 115L	Environmental Geology with Understanding the Earth Lab	4	
GLG 244	Oceanography	3	Taken at GCTC
STA 261	Statistics	4	Taken at GCTC
TBD XXX	Courses for selected minor or electives	34*	
	Subtotal Miami Courses	64	
	Associate Degree Hours	60	
	Total Bachelor Degree Hours	124	

*Total number of courses for the selected minor and/or general electives needed at Miami depends on the classes taken for this area and the total number of hours transferred from Gateway Community & Technical College. Students must complete a minimum of 30 hours at Miami University and earn a total of 124 hours for the bachelor's degree.

SPECIAL NOTES

1. When applying to Miami University Regionals, please apply early for best course availability. For Fall applicants, we suggest applying in Spring semester.
2. Application Deadlines: Fall Admission – August 1st. Spring Admission – January 1st.
3. Transfer Scholarship Deadlines: Fall Admission – June 1. Spring Admission – December 1. See the Miami Regionals scholarship page for more information: <https://www.miamioh.edu/regionals/tuition-financial-aid/scholarships/index.html>

Link to Miami degree program

<https://bulletin.miamioh.edu/liberal-arts-applied-science/applied-biology-bs/>