

PROGRAM
TRANSFER GUIDE



This transfer guide is intended for students pursuing an Associate's Degree in Biology at Carroll Community College who are interested in pursuing a Bachelor's Degree in Biology; Area of Concentration Cellular, Molecular & Organismal Physiology at Towson University. This transfer guide outlines the courses and program requirements a student should follow to satisfy degree requirements at (blank) in order to complete both the (blank) and TU degrees within a total of 4 years and 120 credits.

Associate's Degree in Biology

Bachelor's Degree in Biology; AoC Cellular, Molecular & Organismal Physiology

Effective Term:
Spring 2027

YEAR 1 - Carroll Community College					
Fall	TU Equivalent	Credits	Spring	TU Equivalent	Credits
BIOL 101 - Fundamentals of Biology 1*	BIOL 200/200L	4	BIOL 215 Microbiology	BIOL 215	4
CHEM 105 - Principles of General Chemistry 1* ☉* (Core 7)	CHEM 131/131L	4	CHEM 106 - Principles of General Chemistry 2 ☉* (Core 9)	CHEM 132/132L	4
ENGL 101 - College Writing ☉* (Core 2)	ENGL 102	3	MATH 132 - Applied Calculus OR ☉* (Core 3)	MATH 211	3
MATH 130 - Precalculus *	MATH 119	5	MATH 135 - Calculus of a Single Variable I (4 credits)*	MATH 273	
			PSYC 101- General Psychology ☉ (Core 6) ♦	PSYC 101	3
TOTAL CREDITS:		16	TOTAL CREDITS:		14

YEAR 2 - Carroll Community College					
Fall	TU Equivalent	Credits	Spring	TU Equivalent	Credits
BIOL 240 Genetics*	BIOL T09 (309)	4	BIOL 202 - Fundamentals of Biology 2: Organismic & Pop*	BIOL 206/206L	4
CHEM 201 - Organic Chemistry 1*	CHEM 334 (T34)	5	CHEM 202 - Organic Chemistry 2*	CHEM T36 (336)	5
ENGL 102 - Writing About Literature © (Core 13)	ENGL TLL	3		CHEM T37 (337)	
COMM 105 - Introduction to Speech Comm © (Core 4) ♦	COMM 131	3	MUSIC 101 - Music Appreciation © (Core 5) ♦	MUSC 101	3
			SOC 101- Introduction to Sociology © (Core 10) ♦	SOCI 101	3
TOTAL CREDITS:		15	TOTAL CREDITS:		15

YEAR 3 - Towson University			
Fall	Credits	Spring	Credits
BIOL 204 Educational & Career Planning for the Biologist*	1	BIOL 342/343 Human Anat & Phys I & II for BIO Majors (8 credits)*	8
BIOL 208 Biodiversity OR*	3	BIOL 436 Plant Physiology (3 credits) OR*	
BIOL 205 General Botany & BIOL 207 General Zoology (8 credits)*		BIOL 325 Animal Physiology (4 credits)*	
PHYS 211 General Physics I; Non Calculus-Based OR*	4	BIOL 409 - Molecular Biology *	4
PHYS 241 General Physics I Calculus-Based*		(or other Cellular, Molecular and Organismal Physiology approved course)	
BIOL 408 - Cell Biology *	4	Core 9 Advanced Writing Seminar*	3
(or other Cellular, Molecular and Organismal Physiology approved course)			
Core 11 United States as a Nation	3		
TOTAL CREDITS: 15		TOTAL CREDITS: 15	

YEAR 4 - Towson University			
Fall		Spring	
	Credits		Credits
BIOL 367 Endocrinology*	3	BIOL 355 Animal Parasitology*	3
(or other Cellular, Molecular and Organismal Physiology approved course)		(or other Cellular, Molecular and Organismal Physiology approved course)	
Core 12 Global Perspectives	3	Core 14 Ethical Issues & Perspectives	3
BIOL 415 Biotechnology*	3	General Electives	9
(or other Cellular, Molecular and Organismal Physiology approved course)			
General Electives	6		
TOTAL CREDITS: 15		TOTAL CREDITS: 15	

* Denotes course that must be completed with a grade of C or better ** Must consult with a TU Academic Advisor © Core Curriculum

Notes & Recommendations from Towson University:

*Core 1 at TU is automatically waived for all transfer students.

*Students must follow the course selections outlined in this agreement. Failing to complete the specified courses will require them to fulfill remaining requirements at TU and could jeopardize their ability to earn a bachelor's degree within two years.

*Courses with the ♦ symbol are recommendations only; consult with advising for alternate options to complete all coursework within four years.

*Course equivalents ending in TLL are general lower-level elective coursework at TU.

*All Biology majors must complete minimum 19 units toward the major at Towson University, with at least 10 of these units at the upper (300-400) level. Courses taken to fulfill Ancillary Course requirements do not count toward units in residence.

*Please note the graduation requirement that 32 credits of the bachelor's degree must be completed at the upper level (courses numbered 300 or above) at TU when selecting major coursework and general electives.

Bachelor's degree requirements for all students:

- A cumulative grade point average (GPA) of 2.0 is required.
- A C grade (2.0 GPA) or higher is required for all major courses and prerequisites.
- 32 credits of the bachelor's degree must be completed at the upper level (courses numbered 300 or above) at TU