

PROGRAM
TRANSFER GUIDE



This transfer guide is intended for students pursuing an Associate Degree in Computer Science Transfer at Harford Community College who are interested in pursuing a Bachelor of Science in Molecular Biology, Biochemistry & Bioinformatics - Bioinformatics at Towson University. This transfer guide outlines the courses and program requirements a student should follow to satisfy degree requirements at HCC in order to complete both the HCC and TU degrees within a total of 4 years and 120 credits.

Associate Degree in Computer Science Transfer

Effective Term:
Spring 2026

Bachelor of Science in Molecular Biology, Biochemistry & Bioinformatics - Bioinformatics

YEAR 1 - Harford Community College					
Fall	TU Equivalent	Credits	Spring	TU Equivalent	Credits
ENG 101 English Composition (GE)* © (Core 2)	ENGL 102	3	CSI 131 Computer Science I*	COSC 236	4
MATH 203 Calculus I (GM)* © (Core 3)	MATH 273	4	MATH 204 Calculus II (GM)	MATH 274	4
CSI 130 Introduction to Concepts in Computer Science	COSC 175	3	ENG 208 Contemporary Humanities (GAH) © (Core 5) ♦	ENGL TLL	3
PSY 101 General Psychology (GB) © (Core 6) ♦	PSYC 101	3	Physical Education Elective	PHEA TLL	1
CHEM 111 General Chemistry I (GL)* © (Core 7)	CHEM 131/131L	4	SOC 101 Introduction to Sociology (GB) © (Core 10) ♦	SOCI 101	3
TOTAL CREDITS:		17	TOTAL CREDITS:		15

YEAR 2 - Harford Community College					
Fall	TU Equivalent	Credits	Spring	TU Equivalent	Credits
CIS 201 Assembly Programming Language	COSC 290	4	CSI 132 Computer Science II*	COSC 237	4
CIS 221 Programming II: C/C++	COSC TLL	4	CIS 214 Programming II: Java	COSC TLL	4
BIO 120 General Biology I (GL)*	BIOL 200/200L	4	MATH 210 Discrete Structures*	MATH 263	3
CHEM 112 General Chemistry II A (GL)* © (Core 8)	CHEM 132/132L	4	ART 121 Intro to Drawing-Non-Majors (GAH) © (Core 4) ♦	ART 106	3
TOTAL CREDITS:		16	TOTAL CREDITS:		14

YEAR 3 - Towson University			
Fall	Credits	Spring	Credits
BIOL 206/206L Biology II: Intro to Ecology & Evolution Lecture & Lab*	4	BIOL 309 Genetics*	4
CHEM 333/CHEM 333L Essentials of Organic Chemistry Lecture & Lab*	5	CHEM 351 Biochemistry*	3
COSC 336 Data Structures and Algorithm Analysis*	4	MATH 330 Introduction to Statistical Methods*	4
Core 11 The United States as a Nation	3	COSC 457 Database Management Systems*	3
TOTAL CREDITS:		16	TOTAL CREDITS: 14

YEAR 4 - Towson University			
Fall	Credits	Spring	Credits
BIOL 409 Molecular Biology*	4	PHIL 361 Biomedical Ethics (Core 14)*	2
MBBB 351 Intro to Bioinformatics*	4	Approved Major Elective Course (see current TU catalog)*	3
Core 12 Global Perspectives	3	MBBB 401 Advanced Bioinformatics*	3
Core 13 Diversity & Difference	3	Core 9 Advanced Writing Seminar	3
		General Elective	2
TOTAL CREDITS:		14	TOTAL CREDITS: 14

* 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.
- *Students may substitute TU's CHEM 334, CHEM 336, and CHEM 339 (8-credit sequence) in place of CHEM 333/333L.
- *Students may substitute TU's CIS 458 in place of COSC 457.

- 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