PROGRAM TRANSFER GUIDE

CCBC | TU TOWSON UNIVERSITY

This transfer guide is intended for students pursuing an Associate Degree in Computer Science at Community College of Baltimore County who are interested in pursuing a Bachelor's Degree in Computer Science: Cyber Operations at Towson University. This transfer guide outlines the courses and program requirements a student should follow to satisfy degree requirements at CCBC in order to complete both the CCBC and TU degrees within a total of 4 years and 121 credits.

Associate Degree in Computer Science

Bachelor's Degree in Computer Science: Cyber Operations

Effective Term: Spring 2026

Community College — Course	Credits	TU Equivalent	Notes
ACDV 101 - Academic Development 101	1	USEL TLL	
CSIT 111 - Fundamentals of Logic and Design	3	COSC 175 (Core 4)	
ENGL 101 - College Composition I*	3	ENGL 102 (Core 2)	
MATH 251 - Calculus I*	4	MATH 273 (Core 3)	
CMNS 101 - Fundamentals of Communication*	3	COMM 131 (Core 5)	
BIOL 110 - Biology I: Molecules and Cells*	4	BIOL 200/ BIOL 200L (Core 7)	
CSIT 210 - Introduction to Programming*	4	COSC 236	must complete CSIT 210 and 211 for listed equivalents
MATH 252 - Calculus II*	4	MATH 274	
MUSC 109 - Survey of World Music	3	MUSC TLL (Core 12)	Meets CCBC Diversity requirement; substitution permitted
BIOL 111 - Evolution and Ecology*	4	BIOL 206/BIOL 206L (Core 8)	Consult advisor for acceptable substitution if desired
CSIT 211 - Advanced Programming*	4	COSC 237	must complete CSIT 210 and 211 for listed equivalents
MATH 243 - Discrete Mathematics*	4	MATH 263	
PSYC 101 - Introduction to Psychology	3	PSYC 101 (Core 6)	Consult advisor for acceptable substitution if desired
ENGL 102 - College Composition II	3	ENGL TLL (Core 13)	
CSIT 214 - C++ Programming	4	COSC TLL	
MATH 257 - Linear Algebra*	4	MATH 265	
SOCL 101 - Introduction to Sociology	3	SOCI 101 (Core 10)	Consult advisor for acceptable substitution if desired
CSIT 267 - iOS Application Development	3	COSC TLL	Consult advisor for acceptable substitution if desired
TOTAL COMMUNITY COLLEGE CREDITS:	**61**		

Towson University — Course	Credits	Notes
Core 1 Towson Seminar		Waived for Transfer Students
Core 11 The United States as a Nation	3	
CIS 377 Introduction to Cybersecurity*	3	
COSC 290 Principles of Computer Organization*	4	
COSC 336 Data Structures and Algorithm Analysis*	4	
COSC 350 Data Communications and Networking*	3	
COSC 412 Software Engineering*	3	
COSC 439 Operating Systems*	3	
COSC 455 Programming Languages: Design & Implementation*	3	
COSC 457 Database Management Systems*	3	
MATH 330 Introduction to Statistical Methods*	4	
ENGL 317 Writing for Business & Industry (Core 9)*	3	
COSC 418 Ethical & Societal Concerns of Computer Sci (Core 14)*	3	
COSC 340 Systems Programming*	3	
COSC 440 Operating Systems Security*	3	
COSC 450 Network Security*	3	
COSC 458 Application Software Security*	3	
COSC 481 Case Studies in Computer Security*	3	
COSC 485 Reverse Engineering and Malware Analysis*	3	
MATH 314 Introduction to Cryptography	3	
TOTAL TU CREDITS:	**60**	

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

Notes & Recommendations from Towson University:

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

*A course number beginning with T or F indicates that it is a lower-level equivalent of an upper-level TU course. These courses will not count toward the TU degree requirement for 32 upper-level units.

*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.