

HARFORD COMMUNITY COLLEGE/COMPUTER INFORMATION SYSTEMS A.A.S. DEGREE
TOWSON UNIVERSITY/INFORMATION TECHNOLOGY B.S. DEGREE

HARFORD COMMUNITY COLLEGE		TOWSON UNIVERSITY				
COURSE #	COURSE TITLE	CRS.	TU EQUIVALENCY	CORE	COMMENTS	COURSE ID#
ENG 101	English Composition (GE)	3	TSEM Waived ENGL 102	1.	Towson Seminar English Composition	13192
MATH 101 OR MATH 109 OR MATH 111 OR MATH 203 OR MATH 212	College Algebra OR Pre-calculus Math OR Introduction to Finite Math OR Calculus I OR Calculus with Applications	3-4	MATH LLE MATH 119 MATH 111 MATH 273 MATH 211	2. 3.	Mathematics	10488 4381 4376 4407 4389
CIS 102	Intro to Information Sciences (GI)	3	COSC 111 C4	4.	Creativity & Creative Development	13369
CMST210	Group Communication & Leadership (GH)	3	COMM TLL**	5.	(TU IT requirement) Arts & Humanities	10161****
BH/SS	Behavioral/Social Science (GB)	3	Depends on choice.	6.	Social & Behavioral Sciences	
BIO/PHY	Biological/Physical Science w/Lab (GL)	4	Depends on choice.	7.	Biological & Physical Science w/Lab	
			ENGL 317	8.	Biological & Physical Science	
				9.	Advanced Writing Seminar	
				10.	Metropolitan Perspectives	
BA 101	Introduction to Business (GI)	3	IDIS TLL	11.	The United States as a Nation	11091****
				12.	Global Perspectives	
				13.	Diversity & Difference	
			COSC 418	14.	Ethical Issues & Perspectives	
Total CORE in Transfer		22-23				
CIS 104	Computer Operating Systems	3	ITEC 274			13152
CIS 135	Introduction to Networks	3	ITEC 250			13140
CIS203	System Design & Development	3	CIS 211			1185
CIS217	Introduction to Web Programming	3	ITEC 231		Program elective at Harford.	12826
CIS 131 and CIS 132 Or CIS 119 and CIS 214	Computer Science I and Computer Science II Or Programming I: Java and Programming II: Java	4,4	COSC 236 COSC 237 OR COSC 236 COSC 237		Both courses in either sequence must be completed for TU equivalencies. Otherwise, the courses will transfer without equivalencies.	1344 1345 1344 1345
CIS 273 OR CIS/CIS/ISS	Cooperative Education: CIS OR CIS/CIS/ISS Elective	3-4	Depends on choice.			
ENG 209	Technical Writing	3	ENGL TLL		No equivalency	10267
CIS 115	Fundamentals of Programming	3	COSC 175			1335
CIS/CIS/ISS	CIS/CIS/ISS Elective	4	Depends on choice.			
CIS/CIS/ISS	CIS/CIS/ISS Elective	3-4	Depends on choice.			
PE/F	Physical Education/Fitness Elective	1				
PE/F	Physical Education Elective	1				
Program Requirements at Harford		38-40				
Total Program Requirements at Harford		60-63				

Total Credits in Transfer

64*

*64 credit transfer maximum. 18-19 University Core Curriculum units must be completed at Towson University: 8, 9, 10, 12, 13 and 14.
 ** CMST210 will be used to satisfy TU's IT requirement of COMM131 for student's under this agreement only.
 ***Requires Course Directive/Exception for Core Placement.

Program Requirements to be completed at Towson

• Required Courses:

(21 credits)

CIS 377	Information Systems Security	(3)	
CIS 435	Human Computer Interaction	(3)	
COSC 418	Ethics & Societal Concerns of Computer Scientists	(3)	(Core 14. Ethical Issues & Perspectives)
ITEC 315	Data & Information Management	(3)	
ITEC 325	System Administration & Maintenance	(3)	
ITEC 411	System Architecture & Integration	(3)	
ITEC 485	Information Technology Capstone	(3)	

• Elective Courses

(12 credits)

Choose 4 courses from the following:

CIS 440	Systems Development for E-Commerce	ITEC 425	Enterprise IT Architecture
CIS 445	Universal Usability	ITEC 437	Disaster Recovery and Enterprise Continuity
ITEC 336	Legal & Policy Issues in IT	ITEC 451	Advanced Data Management & Analysis
ITEC 450	Advanced Computer Networking	ITEC 464	Web Development
ITEC 345	Scripting Languages	ITEC 427	Cloud Computing for Enterprises
ITEC 397	Information Technology Internship	ITEC 470	Special Topics in Information Technology
ITEC 423	Emerging Internet Technologies	ITEC 495	Independent Study in Information Technology

• Required IT University Core Courses

(6 credits)

ENGL 317	Writing for Business & Industry	(3)	(Core 9. Advanced Writing Seminar)
MATH 231	Basic Statistics	OR	
ECON 205	Statistics for Business & Economics	OR	
PSYC 212	Behavioral Statistics	(3)	

Total Credits to B.S. Degree

(120 credits)

Harford Community College Computer Information Systems A.A.S. Degree	60-63
Completion of TU Program Requirements	39
Completion of TU Core Requirements	12-13
Electives	5-9