

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#
			TSEM Waived	1.	Towson Seminar	13192
ENG 101	English Composition (GE)	3	ENGL 102	2.	English Composition	2348
MATH 216 *	Intro to Statistics (GM) *	4	MATH 231	3.	Mathematics	4393
CIS 102	Intro to Information Sciences (GI)	3	COSC 111	4.	Creativity & Creative Development	13369
CMST 210 **	Group Communication & Leadership (GH) **	3	COMM TLL***	5.	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	
				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	
				14.	Ethical Issues & Perspectives	
Total CORE in Transfer		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
CSI 119 <i>and</i> CSI 214	Programming I: Java <i>and</i> Programming II: Java	4,4	COSC 236 COSC 237		<i>Both courses in the sequence must be completed for TU equivalencies. Otherwise, the courses will transfer without equivalencies.</i>	1344 1345
CIS 273 <i>OR</i> CSI/CIS/ISS	Cooperative Education: CIS <i>OR</i> CSI/CIS/ISS Elective	3	Depends on choice.			
ENG 209	Technical Writing	3	ENGL TLL		No equivalency	10267
CIS 115	Fundamentals of Programming	3	COSC 175			1335
CSI/CIS/ISS	CSI/CIS/ISS Elective	4	Depends on choice.			
CSI/CIS/ISS	CSI/CIS/ISS Elective	3	Depends on choice.			
PE	Physical Education Elective	1	USEL TLL			10792
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Program Requirements at Harford		38				
Total Program Requirements at Harford		61				
Maximum Credits in Transfer		64				

* **MATH 216 Introduction to Statistics is recommended.** Students who do not complete MATH 216 at HCC must complete Math 231 or ECON 205 at TU. TUNE students may need to take this course at Towson University's main campus.

** **CMST210 Group Communication and Leadership is recommended.** CMST 210 will be used to satisfy TU's IT requirement of COMM 131 for students under this agreement only. Students who do not complete CMST 210 or CMST 101 at HCC must complete COMM 131 at TU. TUNE students may need to take this course at Towson University's main campus.

***Requires Course Directive/Exception for Core Placement.

**** **Students should take CIS217 as one of their program electives at Harford.** Students who do not complete CIS 217 at HCC will be required to complete ITEC 231 at TU. TUNE students may need to take this course at Towson University's main campus.

Note: 64 credit transfer maximum. 18 University Core Curriculum units must be completed at Towson University: 8, 9, 10, 12, 13 and 14.

Program Requirements to be completed at Towson

• Required Courses:		(24-30 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)
ENGL 317	Writing for Business and Industry	(3)	(Core 9. Advanced Writing Seminar)
ITEC 315	Data & Information Management	(3)	
ITEC 325	System Administration & Maintenance	(3)	
ITEC 411	System Architecture & Integration	(3)	
ITEC 485	Information Technology Capstone	(3)	
COMM 131	Fundamentals of Speech Communication	(3)	Required if CMST 210 is not completed at HCC
MATH 231	Basic Statistics OR	(3)	Required if MATH 216 is not completed at HCC
ECON 205	Statistics for Business & Economics OR		
PSYC 212	Behavioral Statistics		

• Elective Courses		(12 credits)	
<u>Choose 4 courses from the following:</u>			
CIS 440	Systems Development for E-Commerce	ITEC 425	Enterprise IT Architecture
CIS 445	Universal Usability	ITEC 437	Disaster Recovery and Enterprise Continuity
ITEC 423	Emerging Internet Technologies	ITEC 464	Web Development
ITEC 451	Advanced Data Management & Analysis	ITEC 427	Cloud Computing for Enterprises
ITEC 336	Legal & Policy Issues in IT	ITEC 464	Web Development
ITEC 450	Advanced Computer Networking	ITEC 495	Independent Study in Information Technology
ITEC 345	Scripting Languages	ITEC 470	Special Topics in Information Technology
ITEC 397	Information Technology Internship		

<u>Total Credits to B.S. Degree</u>		(120 credits)
Harford Community College Computer Information Systems A.A.S. Degree		61
Completion of TU Program Requirements (incl. Core 9 & 14)		24-30
Completion of TU Core Requirements		12
Program Electives		12
Electives		5-11