

**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#
				1.	Towson Seminar	
ENG 101	English Composition	3	ENGL 102	2.	English Composition	2348
MATH 101 <i>OR</i>	College Algebra <i>OR</i>	3-4	MATH LLE	3.	Mathematics	10488
MATH 109 <i>OR</i>	Precalculus Math <i>OR</i>		MATH 119			4381
MATH 111 <i>OR</i>	Introduction to Finite Math <i>OR</i>		MATH 111			4376
MATH 203 <i>OR</i>	Calculus I <i>OR</i>		MATH 273			4407
MATH 207	Calculus for Business & Economics		MATH 211			4389
CIS 102	Introduction to Information Sciences	3	COSC 111***	4.	Creativity & Creative Development	1328***
A/H	Arts & Humanities (GH)	3	Depends on choice.	5.	Arts & Humanities	
BH/SS	Behavioral/Social Science (GB)	3	Depends on choice.	6.	Social & Behavioral Sciences	
BIO/PHY	Biology/Physical Science Lab (GL)	4	Depends on choice.	7.	Biological & Physical Science w/Lab	
				8.	Biological & Physical Science	
				9.	Advanced Writing Seminar	
				10.	Metropolitan Perspectives	
				11.	The United States as a Nation	
				12.	Global Perspectives	
GE Elective	General Education Elective (Diversity)	3	Depends on choice.	13.	Diversity & Difference	
				14.	Ethical Issues & Perspectives	
<b>Total CORE in Transfer</b>		<b>22-23</b>				
ACCT 101	Accounting Principles I	3	ACCT 201			4
ACCT 102	Accounting Principles II	3	ACCT 202			5
CIS 135	Introduction to Networks	3	ITEC 250			13140
CIS 205	Intro. to Visual Basic.NET Programming	4	CIS 265			1348
CIS 115	Fundamentals of Programming	3	COSC 175			1335
CIS203	Computer Systems & Procedures	3	CIS 211			1185
CIS 221 <i>OR</i>	C++ Programming Language <i>OR</i>	4	COSC 236		Course equivalency exception for this agreement.	1344
CIS 214 <i>OR</i>	Java Programming Language <i>OR</i>					
CSI 131	Computer Science I					
CIS 273 <i>OR</i>	Cooperative Education <i>OR</i>	3-4	Depends on choice.			
CSI/CIS	CSI/CIS Elective					
ENG 209	Technical Writing	3	ENGL TLL	No equivalency		10267
CSI/CIS	CSI/CIS Elective	3-4	Depends on choice.			
CIS217	Introduction to Web Programming	3	ITEC 231	Program elective at Harford.		12826
CIS 104	Computer Operating Systems	3	ITEC 274	Software elective at Harford.		13152
PE	Physical Education Fitness Elective	1				
PE	Physical Education Elective	1				
<b>Total Program Requirements</b>		<b>40-42</b>				
<b>Total Program Requirements at Harford</b>		<b>62-65</b>				
<b>Total Credits in Transfer</b>		<b>64*</b>				

**\*64** credit transfer maximum. **21-22** University Core Curriculum units must be completed at Towson University: 1, 8, 9, 10, 11, 12 and 14.

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

**Program Requirements to be completed at Towson**

<b>• <u>Required Courses:</u></b>		<b>(21 credits)</b>	
CIS 377	Information Systems Security	(3)	
CIS 435	Human Computer Interaction	(3)	
COSC 418	Ethics & Societal Concerns of Computer Scientists	(3)	<b>(Core 14. Ethical Issues &amp; Perspectives)</b>
ITEC 315	Data & Information Management	(3)	
ITEC 325	System Administration & Maintenance	(3)	
ITEC 411	System Architecture & Integration	(3)	
ITEC 485	Information Technology Capstone	(3)	
<b>• <u>Elective Courses</u></b>		<b>(12 credits)</b>	
	<b>Choose 4 courses from the following:</b>		
CIS 440	Systems Development for E-Commerce	ITEC 425	Enterprise IT Architecture
CIS 445	Universal Usability	ITEC 451	Advanced Data Management & Analysis
ITEC 336	Legal & Policy Issues in IT	ITEC 464	Web Development
ITEC 3xx	Advanced Networking	ITEC 4xx	Cloud Computing for Enterprises
ITEC 3xx	Scripting Languages	ITEC 470	Special Topics in Information Technology
ITEC 397	Internship in Information Technology	ITEC 495	Independent Study in Information Technology
ITEC 423	Emerging IT		
<b>• <u>Required University Core Courses</u></b>		<b>(3 credits)</b>	
ENGL 317	Writing for Business & Industry	(3)	<b>(Core 9. Advanced Writing Seminar)</b>
<b><u>Total Credits to B.S. Degree</u></b>		<b>(120 credits)</b>	
Harford Community College Computer Information Systems A.A.S. Degree		<b>64</b>	
Program Requirements at Towson University		<b>33</b>	
University Core Curriculum Requirements at Towson University		<b>21-22</b>	
Electives		<b>1-2</b>	