

**HARFORD COMMUNITY COLLEGE - COMPUTER SCIENCE A. S. DEGREE**  
**TOWSON UNIVERSITY - INFORMATION SYSTEMS B.S. DEGREE**

HARFORD COMMUNITY COLLEGE			TOWSON UNIVERSITY			
COURSE #	COURSE TITLE	CRS.	TU EQUIVALENCY	GenEd	COMMENTS	COURSE ID#
ENG 101	English Composition	3	ENGL 102	IA		2348
				IB	COSC 111 at TU meets this requirement.	
MATH 203	Calculus I	4	MATH 273	IC		4407
				ID	ENGL 317 at TU meets this requirement.	
				IE	Creativity & Creative Development	
BIO/PHSC	Biology/Physical Science Elective	4		IIA	Equivalency depends on choice.	
BIO/PHSC	Biology/Physical Science Elective	4		IIA	Equivalency depends on choice.	
*A & H	Arts & Humanities Elective	3		IIB1	Equivalency depends on choice.	
				IIB3	Contemporary Issues	
*A & H	Arts & Humanities Elective`	3		IIC1	Equivalency depends on choice.	
*B/SS	Behavioral/Social Science	3		IIC2	Equivalency depends on choice.	1788
*B/SS	Behavioral/Social Science	3		IIC2	Equivalency depends on choice.	
				IIC3	Cultural Plurality & Diversity	
				IID	Global Awareness	
<b>GenEd in Transfer</b>		<b>27</b>				
CIS 214	Java Programming Language	4	COSC TLL			10186
CIS 115	Fundamentals of Programming	3	COSC 175			1335
CIS 205	Intro. To Visual Basic.NET Programming	4	CIS 265		May count as one of the three CIS/COSC electives.	1348
CIS 201	Assembly Programming Language	4	COSC TLL			10186
CIS 221	C++ Programming	4	COSC TLL			10186
CSI 131	Computer Science I	4	COSC 236			1344
CSI 132	Computer Science II	4	COSC 237			1345
MATH 204	Calculus II	4	MATH 274			4408
MATH 216	Introduction to Statistics	4	MATH 231			4393
MATH 210	Discrete Structures	3	MATH263			4401
	Physical Education Fitness Elective	1	PHEA TLL			10564
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<b>Program Requirements</b>		<b>40</b>				
<b>Total Harford Program Requirements</b>		<b>67</b>				
<b>Total Units in Transfer</b>		<b>64</b>				

64 credit transfer maximum.

An additional **18** GenEd credits must be completed at Towson University: I.B, I.D, I.E, II.B.3, II.C.3 and II.D

\*HCC students must complete one 3-credit Diversity course. It is recommended students select a course from the approved list on Diversity courses found in the HCC catalog.

**TOTAL CREDITS TO B.S. DEGREE: 125-130 Units**

- **Transfer Credits from Harford Community College: 64 Units**
  
- **GenEd to be completed at Towson University: 18 Units**  
 (I.B, I.D, I.E, II.B.3, II.C.3 and II.D)
 

COSC 111	Information & Technology for Business	(3)	GenEd I.B
ENGL 317	Writing for Business & Industry	(3)	GenEd I.D
  
- **Program Requirements at Towson University: 43-48 Units**

CIS 211	Fund. Of Info Systems & Technology	(3)	
CIS 239	Computer Systems Architecture	(3)	
CIS 334	Data Organization	(3)	
CIS 379	Systems Analysis & Design	(3)	
CIS 458	Organizational Database Management	(3)	
CIS 350	Telecommunications	(3)	
CIS 479	Software Project Management	(3)	
COSC 480	Senior Seminar		
	OR	(1-3)	
COSC 418	Ethical & Societal Concerns of Computer Scientists		
CIS/COSC	Upper-level electives	(6)	
Additional Course Sequence		(12-15)	
Required CIS Project Course (Choose one of the following):		(3)	
CIS 435	Human-Computer Interaction		
CIS 440	Systems Development for Electronic Commerce		
CIS 475	Analysis & Design for Web Sites		