

HARFORD COMMUNITY COLLEGE COMPUTER SCIENCE A.S. DEGREE
TOWSON UNIVERSITY COMPUTER SCIENCE B.S. DEGREE - COMPUTER SECURITY TRACK

Effective Fall 2010

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	Using Information Effectively	
MATH 203	Calculus I	4	MATH 273	IC		4407
				ID	Advanced Composition	
				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 Elective	3		IIC2	Equivalency depends on choice.	
*B/SS	Behavioral/Social Science Elective	3		IIC2	Equivalency depends on choice.	
				IIC3	Cultural Plurality & Diversity	
				IID	Global Awareness	
GenEd in Transfer		27				
CIS 205	Intro Visual Basic.Net or Other CIS programming language	4	CIS 265 COSC		Equivalency depends on student choice.	1348
CIS 115	Fundamentals of Programming	3	COSC 175			1335
CIS 201	Assembly Programming Language	4	COSC TLL			10186
CIS 214	Java 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 206 Or Math 217	Calculus III Linear Algebra	4	MATH 275 MATH 265			4409 4403
MATH 210	Discrete Structures	3	MATH263			4401
	Physical Education Fitness Elective	1	PHEA TLL			10564
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Program Requirements		40				
Total Harford Program Requirements		67				
Total Units in Transfer		64				

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, 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.

**BIO 120 and BIO 121 or CHEM 111 and CHEM 112 or PHYS 203 and PHYS 204. If PHYS 203 and 204 are chosen, two additional approved science courses will be required).

Total Credits Toward B.S. Degree: (129-131 Units)

- **Harford Computer Science A.S.:** **64**

- **GenEd to be completed at Towson University:** **18**
 (I.B, I.D, I.E, II.B.3, II.C.3, II.D)
 COMM 131 Fundamentals of Speech Communication (3) (GenEd II.B.3 - COSC requires a grade equivalent of 2.00)

- **Program requirements at Towson University:** **47-49**
 - COSC 290 Principles of Computer Organization (4)
 - COSC 336 Data Structures & Algorithm Analysis (4)

 - COSC 480 Senior Seminar
 OR (1-3)
 - COSC 418 Ethical & Societal Concerns of Computer Scientists

 - COSC 350 Data Communications & Networking (3)
 - CIS 377 Information Systems Security (3)
 - COSC 457 Database Management Systems (3)
 - COSC 439 Operating Systems (3)
 - MATH 314 Introduction to Cryptography (3)
 - MATH 330 Introduction to Statistical Methods (4)
 - COSC 455 Prog. Languages: Design & Implementation (3)
 - COSC 450 Network Security (3)
 - COSC 440 Operating Systems Security (3)
 - COSC 458 Application Software Security (3)
 - COSC 481 Case Studies (3)
 - Lab Science Course (4)

(Students must have a minimum of 12 approved credits in science).