

HARFORD COMMUNITY COLLEGE MATHEMATICS A.S. DEGREE
TOWSON UNIVERSITY PURE MATHEMATICS CONCENTRATION 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 203	Calculus I	4	MATH 273	3.	Mathematics	4407
CIS 102	Intro. Information Sciences	3	COSC 111***	4.	Creativity & Creative Development	1328***
(GH)**	Arts/Humanities Elective	3	Depends on choice.	5.	Arts & Humanities	
(GB)**	Behavioral/Social Science Elective	3	Depends on choice.	6.	Social & Behavioral Sciences	
PHYS 204	General Physics: Vib., Waves, Heat, Elec.	4	PHYS 242	7.	Biological & Physical Science w/Lab	6806
PHYS 203	General Physics: Mech., Part. Dynamics	3	PHYS 241	8.	Biological & Physical Science	6805
				9.	Advanced Writing Seminar	
				10.	Metropolitan Perspectives	
(GH)**	Arts/Humanities Elective	3	Depends on choice.	11.	The United States as a Nation	
(GB)**	Behavioral/Social Science Elective	3	Depends on Choice	12.	Global Perspectives	
GB/GH**	General Education Elective	3	Depends on choice.	13.	Diversity & Difference	
				14.	Ethical Issues & Perspectives	
Total CORE in Transfer		32				
MATH 204	Calculus II	4	MATH 274			4408
MATH 210	Discrete Structures	3	MATH 263			4401
MATH 206	Calculus III	4	MATH 275			4409
MATH 217	Linear Algebra	4	MATH 265			4403
MATH 208	Elementary Differential Equations	3	MATH 374		Content Equivalent - transfers as lower level credit.	10493
CIS 115	Fundamentals of Programming	3	COSC 175			1335
CIS 111	C Programming Language	4	COSC TLL			10186
CSI 131	Computer Science I	4	COSC 236		Equivalency exception for this program.	1344
PE	Physical Education Elective	1	PHEA TLL			10564
PE	Physical Fitness Elective	1	PHEA TLL			10564
Program Requirements at Harford		31				
Total Harford Program Requirements at Harford		63				
Total Credits in Transfer		63				

* 64 credit transfer maximum. 12 Core Curriculum units must be completed at Towson University: 1, 9, 10 and 14

**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. GB and GH must be in different disciplines.

***Requires "course directive/exception" for Core placement.

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Major Requirements to be completed at Towson (38 Credits)

MATH 267 Introduction to Abstract Mathematics	4
MATH 331 Probability	4
MATH 369 Introduction to Abstract Algebra	3
MATH 463 Linear Algebra	3
MATH 467 Algebraic Structures	3
MATH 473 Introduction to Real Analysis	3
MATH 475 Complex Analysis	3
MATH 490 Senior Seminar in Mathematics	3
MATH Upper Level Mathematics Electives	15

TOTAL CREDITS TO B.S. DEGREE (120)

Harford Mathematics A.S. Degree	63
Completion of Core Curriculum at TU	12
Major Requirements at TU	38
Electives at TU	7

(ENGL 317 Writing for Business & Industry is recommended for the Core 9 Requirement.)