

HARFORD COMMUNITY COLLEGE MATHEMATICS A.S. DEGREE
TOWSON UNIVERSITY APPLIED MATHEMATICS CONCENTRATION B.S. DEGREE

			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		Course does not have a TU equivalency.	10186
CSI 131	Computer Science I	4	COSC 236			1344
PE	Physical Education Elective	1	PHEA TLL			10564
PE	Physical Education/Fitness Elective	1	PHEA TLL			10564
Program Requirements		31				
Total Program Requirements		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 from Towson's

Diversity & Difference (Core 13) list.

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

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

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Major Requirements to be completed at Towson (32-33 Credits)

MATH 267	Introduction to Abstract Mathematics	(4)
MATH 331	Probability	(4)
MATH 332	Mathematical Statistics	(3)
MATH 369	Introduction to Abstract Algebra	(3)
MATH 377	Mathematical Models	
	<i>OR</i>	(3)
MATH 439	Computational Probability Models	
MATH 379	Advanced Calculus	(3)
MATH 435	Numerical Analysis	(3)
MATH 475	Complex Analysis	(3)
MATH 490	Senior Seminar in Mathematics	(3)

TOTAL CREDITS TO B.S. DEGREE (120)

Harford Mathematics A.S. Degree	63	
Completion of Core Curriculum at TU	12	ENGL 317 Writing for Business & Industry is recommended for the Core 9 Requirement.)
Major Requirements at TU	32-33	
General Electives	12-13	