

**HARFORD COMMUNITY COLLEGE GENERAL STUDIES A.A. DEGREE**  
**TOWSON UNIVERSITY MATHEMATICS: ACTUARIAL SCIENCE & RISK MANAGEMENT CONCENTRATION 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
ENG 109	English Composition: Research Writing	3	ENGL 152	IB		2352
MATH 203	Calculus I	4	MATH 273	IC		4407
				ID	Advanced Composition	
CMST 101	Speech Fundamentals	3	COMM 131	IE		11624
(GL)	Bio./Phys. Lab Science Elective (GL)	4		IIA	Equivalency depends on choice.	
(GL)	Bio./Phys. Lab Science Elective (GL)	4		IIA	Equivalency depends on choice.	
(GH)	Arts/Humanities Elective (GH)	3		IIB1	Equivalency depends on choice.	
HLTH	Health Elective	3		IIB3	Equivalency depends on choice	
GH	Arts/Humanities Elective (GH)	3		IIC1	Equivalency depends on choice.	
ECON 102	Microeconomics	3	ECON 201	IIC2		1788
(GB)	Behavioral/Social Science Elective (GB)	3		IIC2	Equivalency depends on choice.	
HIST	History Elective	3		IIC3	Equivalency depends on choice.	
**DIVERSITY	Diversity Requirement (Global Focus)	3		IID	Equivalency depends on choice.	
<b>Total GenEd in Transfer</b>		<b>42</b>				
ACCT 101	Accounting Principles I	3	ACCT 201			4
ACCT 102	Accounting Principles II	3	ACCT 202			5
CSI 131	Computer Science I	4	COSC 236		Equivalency exception for this program.	1344
ECON 101	Macroeconomics	3	ECON 202			1789
MATH 204	Calculus II	4	MATH 274			4408
MATH 217	Linear Algebra	4	MATH 265			4403
PE	Physical Education Elective	1	PHEA TLL			10564
PE	Physical Education/Fitness Elective	1	PHEA TLL			10564
<b>Program Requirements</b>		<b>23</b>				
<b>Total Harford Program Requirements</b>		<b>65</b>				
<b>Total Credits in Transfer</b>		<b>64</b>				

\* 64 credit transfer maximum. 3 GenEd credits must be completed at Towson University: I.D Advanced Composition.

\*\*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.

**Major Requirements to be completed at Towson (50 Credits)**

FIN 331	Principles of Financial Management	(3)
FIN 333	Investments & Securities Analysis I	(3)
MATH 267	Introduction to Abstract Mathematics	(4)
MATH 275	Calculus III	(4)
MATH 312	Theory of Interest	(3)
MATH 331	Probability	(4)
MATH 332	Mathematical Statistics	(3)
MATH 337	Applied Regression & Time Series Analysis	(4)
MATH 369	Introduction to Abstract Algebra	(3)
MATH 438	Actuarial Models	(3)
MATH 439	Computational Probability Models	(3)
MATH 442	Actuarial Model Construction	(4)
MATH 485	Mathematical Finance	(3)
MATH 486	Risk Management & Financial Engineering	(3)
MATH 490	Senior Seminar in Mathematics	(3)

**Total Credits to B.S. Degree (120)**

Harford General Studies A.A. Degree	64
Completion of GenEd Requirements	3
Major Requirements	50
Electives	3

*(ENGL 317 Writing for Business & Industry is recommended for GenEd I.D)*