

**HARFORD COMMUNITY COLLEGE - CHEMISTRY (Non-Calculus Based Physics) A.S. DEGREE**  
**TOWSON UNIVERSITY/ FORENSIC CHEMISTRY - DNA Track B.S. DEGREE**

HARFORD COMMUNITY COLLEGE			TOWSON UNIVERSITY			
COURSE #	COURSE TITLE	CRS.	TU EQUIVALENCY	CORE	COMMENTS	COURSE ID#
				1.	Towson Seminar	
ENG 101	College Composition	3	ENGL 102	2.	English Composition	2348
MATH 109	Precalculus Mathematics	4	MATH 119	3.	Mathematics	4381
CIS 102	Introduction to Information Sciences	3	CIS 115***	4.	Creativity & Creative Development	1184***
GH	Arts and Humanities (GH)	3	Depends on choice.	5.	Arts & Humanities	
ANTH 101	Introduction to Physical Anthropology (GB)(D)	3	ANTH 208	6.	Social & Behavioral Sciences	110
CHEM 111	General Chemistry I	4	CHEM 110 <i>OR</i> CHEM 131 <i>AND</i> CHEM 131L	7.	Biological & Physical Science w/Lab	1041 13097 13098
CHEM 112	General Chemistry II A	4	CHEM 111 <i>OR</i> CHEM 132 <i>AND</i> CHEM 132L	8.	Biological & Physical Science	1042 13099 13100
				9.	Advanced Writing Seminar	
GB	GenEd - Behavioral/Social Science (GB)	3	Depends on choice.	10.	Metropolitan Perspectives	
CJ 101**	**Introduction to Criminal Justice	3**	CRMJ 254	11.	The United States as a Nation	7729
ENG 109	Research Writing	3	ENGL 152***	12.	Global Perspectives	2352***
GH	Arts & Humanities (GH)	3	Depends on choice.	13.	Diversity & Difference	
				14.	Ethical Issues & Perspectives	
<b>Total CORE in Transfer</b>		<b>36</b>				
BIO 120	General Biology (GL)	4	BIOL 201			666
BIO 208**	Genetics	4**	BIOL 309		Transfers as lower level credit.	11379
CHEM 207	Organic Chemistry I	4	CHEM 331		Transfers as lower level credit.	10134
CHEM 208	Organic Chemistry II	4	CHEM 332		Transfers as lower level credit.	10135
MATH 203	Calculus I (must be completed at HCC)	4	MATH 273			4407
PHYS 101	Introductory Physics I	4	PHYS 211			6800
PHYS 102	Introductory Physics II	4	PHYS 212			6801
	Physical Education Elective	1	PHEA TLL			10564
	Physical Education Fitness Elective	1	PHEA TLL			10564
<b>Program Requirements at Harford</b>		<b>30</b>				
<b>Total Harford Program Requirements</b>		<b>66</b>				
<b>Total Credits in Transfer</b>		<b>64</b>				

\*\* Students must complete a "Course Substitution Appeal Form" through the Records and Registration Office at Harford Community College to substitute this course for a General Education elective.

\*\*\*Requires Course Directive/Exception for Core placement.

- **64** credit transfer maximum.
- If PHYS 203/204 is substituted for PHYS 101/102 at Harford Community College, MATH 203 and 204 must also be completed at HCC.

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- **9** Core Curriculum units to be completed at Towson: 1. Towson Seminar, 9. Advanced Writing Seminar and 14. Ethical Issues & Perspectives.

- **Major Requirements to be completed at Towson (51 Units)**

ANTH 357	Introduction to Forensic Crime Analysis	(3)	
ANTH 457	Advanced Forensic Crime Investigation	(3)	
BIOL 409	Molecular Biology	(3)	
BIOL 410	Molecular Biology Lab	(2)	
CHEM 210	Introduction to Analytical Chemistry	(5)	
CHEM 301	Professional Ethics for Scientists	(3)	(Satisfies Core 9. Advanced Writing Seminar)
CHEM 351	Biochemistry I	(3)	
CHEM 356	Biochemistry Lab	(2)	
CHEM 357	Biochemistry II	(3)	
COSC 175	General Computer Science	(4)	
FRSC 367	Forensic Chemistry	(3)	
FRSC 368	Professional Practices in Forensic Science	(3)	
FRSC 420	Forensic Body Fluid Analysis	(4)	
FRSC 440	Forensic Biochemistry, Emergency Medicine & Death Analysis	(3)	
MATH 237	Biostatistics	(4)	
SOCI 370	Criminal Law	(3)	

- **Total Credits to B.S. Degree (121)**

Harford Chemistry A.S. Degree	64
Completion of Core at TU	9
Completion of Major Requirements at TU	48