

HARFORD COMMUNITY COLLEGE- Biology A.S. Degree**TOWSON UNIVERSITY- Biological Sciences B.S. Degree - Functional Biology of Animals Concentration**

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 Or MATH 203	Precalculus Mathematics Or Calculus I	4	MATH 119 MATH 273	3.	Mathematics	4381 4407
CIS 102	Intro. Information Sciences	3	CIS 115***	4.	Creativity & Creative Development	1184***
GH	Arts & Humanities	3	Depends on choice.	5.	Arts & Humanities	
GB	Behavioral/Social Science	3	Depends on choice.	6.	Social & Behavioral Sciences	
CHEM 111	General Chemistry I	4	CHEM 110 OR CHEM 131 AND CHEM 131L	7.	Biological & Physical Science w/Lab	1041 13097 13098
CHEM 112	General Chemistry II A	4	CHEM 111 OR CHEM 132 AND CHEM 132L	8.	Biological & Physical Science	1042 13099 13100
				9.	Advanced Writing Seminar	
				10.	Metropolitan Perspectives	
GB	Behavioral/Social Science	3	Depends on choice.	11.	The United States as a Nation	
				12.	Global Perspectives	
GH	Arts & Humanities	3	Depends on choice.	13.	Diversity & Difference	
				14.	Ethical Issues & Perspectives	
Total CORE in Transfer		30				
MATH 203* Or BIO 202	Calculus I Or Biodiversity (BIO elective at HCC)	3-4	MATH 273 Or BIOL 208			4407 11369
BIO 208	Genetics (BIO elective at HCC)	4	BIOL 309	Transfers as lower level credit.		11379
BIO 120	General Biology I	4	BIOL 201			666
BIO 121	General Biology II	4	BIOL 202			667
PHYS 101	Introductory Physics I	4	PHYS 211			6800
PHYS 102	Introductory Physics II	4	PHYS 212			6801
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
	Physical Education Elective	1	PHEA TLL			10564
	Physical Education/Fitness Elective	1	PHEA TLL			10564
Program Requirements at Harford		33-34				
Total Program Requirements at Harford		63-64				
Total Credits in Transfer		63-64				

- 64 credit transfer maximum.
- 15 Core Curriculum units must be completed at Towson University: 1. Towson Seminar, 9. Advanced Writing Seminar, 10. Metropolitan Perspectives, 12. Global Perspectives and 14. Ethical Issues and Perspectives.
- Students must complete MATH 203 Calculus I at Harford Community College.

***Requires Course Directive for Core placement.

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Major Requirements to be completed at Towson for the Functional Biology of Animals Concentration

- BIOL 204 Educational and Career Planning (1)

Breadth Courses (12-20)

- BIOL 208 Biodiversity *OR*
 BIOL 205 General Botany *AND* (0, 3 or 8) *(If BIO 202 Biodiversity is completed at HCC, this requirement is satisfied.)*
 BIOL 207 General Zoology
- Choose one of the following: (4)
 BIOL 405 Molecular Ecology
 BIOL 408 Cell Biology
 BIOL 409 Molecular Biology
- BIOL 213-214 Human Anatomy *AND* Physiology I, II *OR* (8)
 BIOL 325 Animal Physiology *AND*
 One Focused Elective Course

Elective Courses (9-12)

- BIOL 470 Advanced Physiology (4)
- Focused Electives: (2-4)
 Choose one from: BIOL 305, 315, 360, 367, 421, 427, 428, 463 (If BIOL 325 is selected above, choose two)
- Choose any biology elective from the list of electives in any (3-4)
 Biology Concentration.

Total Credits to B.S. Degree (120)

Harford Biology A.S. Degree	63-64
Completion of Core at TU	15
Completion of Major Requirements at TU	22-33
Elective Credits at TU	8-20