

HARFORD COMMUNITY COLLEGE - Biology AS DEGREE  
TOWSON UNIVERSITY 2 + 2 MB3 Molecular Biology Track

HARFORD COMMUNITY COLLEGE			TOWSON UNIVERSITY			
COURSE #	COURSE TITLE	CRS.	TU EQUIVALENCY	GenEd	COMMENTS	COURSE ID#
ENG 101	English Composition	3	ENGL 102	IA		2348
CIS 102	Intro. Information Sciences	3	COSC 111	IB		1328
MATH 109 Or MATH 203	Precalculus Math Or Calculus I	4	MATH 119 Or MATH 273	IC		4381 Or 4407
				ID IE	Advanced Upper-Level Writing Course Creativity & Creative Development	
CHEM 111	General Chemistry I	4	CHEM 110	IIA1		1041
CHEM 112	General Chemistry II	4	CHEM 111	IIA1		1042
GH	Arts/Humanities Elective	3		IIB1	Equivalency depends on student choice.	
				IIB3	Contemporary Issues	
GH	Arts/Humanities Elective	3		IIC1	Equivalency depends on student choice.	
GB	Behavioral/Social Science Elective	3		IIC2	Equivalency depends on student choice.	
GB	Behavioral/Social Science Elective	3		IIC2	Equivalency depends on student choice.	
				IIC3	Cultural Plurality & Diversity	
				IID	Global Awareness	
<b>GenEd in Transfer</b>		<b>30</b>				
MATH 203 Or BIO 208	Calculus I Or Genetics	4	MATH 273 Or BIOL 309			4407  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
PHYS 101	Introductory Physics I	4	PHYS 211			6800
PHYS 102	Introductory Physics II	4	PHYS 212			6801
BIO 120	General Biology I	4	BIOL 201			666
BIO 121	General Biology II	4	BIOL 202			667
BIO 205	Microbiology	4	BIOL 318		Transfers as lower-level credit.	11209
PE	Physical Education Elective	1	PHEA TLL			10564
PE	Physical Education Fitness Elective	1	PHEA TLL			10564
<b>PROGRAM REQUIREMENTS</b>		<b>34</b>				
<b>Total Harford Program Requirements</b>		<b>64</b>				
<b>Total Credits in Transfer</b>		<b>64</b>				

An additional 15 GenEd credits must be completed at Towson University: **I.D, I.E, II.B.3, II.C.3 and II.D**

- **64** credit transfer maximum.
- **MATH 203, Calculus I, must be taken at Harford Community College**

- **Major Requirements to be completed at Towson**

BIOL 309	Genetics	(4)	<i>(BIO 208 at Harford will transfer as lower-level credit toward the program.)</i>
BIOL 408	Cell Biology	(4)	
BIOL 409	Molecular Biology	(4)	
BIOL 410	Molecular Biology Lab	(2)	
CHEM 210	Analytical Chemistry	(5)	
CHEM 351	Intro Biochemistry	(3)	
MBBB 301	Intro to Bioinformatics	(4)	
MBBB 493	Seminar in Bioethics	(1)	

Complete a minimum of 3 units from the following:

BIOL491	Elective in Independent Research	(3)
BIOL 492	Independent Research	(1-3)
CHEM 491	Independent Research in Chemistry	(1-3)
COSC 495	Independent Study in Computer Science	(1-3)
	Approved Upper-level elective	(3-4)

General Electives (11-14)

(Students completing *Genetics* and/or *Microbiology* at Harford must choose 3-5 upper-level units from the general electives.)

- **Total Credits to B.S. Degree 120-124**

Harford Biology A.S. Degree	64
Completion of <i>GenEd</i> at TU	15
Completion of Major Requirements at TU	30
General Electives	11-14