

HARFORD COMMUNITY COLLEGE/PHYSICS A.S. DEGREE
TOWSON UNIVERSITY/PHYSICS: Astrophysics 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 203	Calculus I	4	MATH 273	3.	Mathematics	4407
CIS 102	Introduction to Information Science	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	4	CHEM 111 OR CHEM 132 AND CHEM 132L	8.	Biological & Physical Science	1042 13099 13100
				9.	Advanced Writing Seminar	
				10.	Metropolitan Perspectives	
*GH	Arts & Humanities	3	Depends on choice.	11.	The United States as a Nation	
*GB	Behavioral/Social Science	3	Depends on choice.	12.	Global Perspectives	
	General Elective	3	Depends on choice.	13.	Diversity & Difference	
				14.	Ethical Issues & Perspectives	
Total CORE in Transfer		33				
MATH 204	Calculus II	4	MATH 274			4408
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
PHYS 203	General Physics I	3	PHYS 241			6805
PHYS 204	General Physics II	4	PHYS 242			6806
PHYS 205	General Physics III	4	PHYS 243			6807
	CIS/CSI Elective	3-4	COSC/CIS	Equivalency depends on student choice.		
	Physical Education Elective	1	PHEA TLL			10564
	Physical Education/Fitness Elective	1	PHEA TLL			10564
Program Requirements at Harford						
Total Program Requirements at Harford						
Total Credits in Transfer		64				

64 credit transfer maximum. **12** Core Curriculum units must be completed at Towson University: **1.** Towson Seminar, **9.** Advanced Writing Seminar, **10.** Metropolitan Perspectives and **14.** Ethical Issues and Perspectives.

*HCC students must complete one 3-credit Diversity courses. It is recommended students select a course from the approved list on Diversity courses found in the HCC catalog.

***Requires Course Directive for Core placement.

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Program Requirements to be completed at Towson

Required Physics Courses (18 Units)

PHYS 185	Introductory Seminar in Physics	(1)
PHYS 307	Intro Mathematical Physics	(3)
PHYS 311	Modern Physics I	(3)
PHYS 341	Intermediate Physics Lab I	(3)
PHYS 351	Mechanics I	(4)
PHYS 354	Electricity and Magnetism I	(4)

Astrophysics Track

Astrophysics Track Advanced Physics Requirements (26 Units)

ASTR 161	General Astronomy I	(4)
ASTR 162	General Astronomy II	(4)
ASTR 303	Astrophysical Techniques	(3)
ASTR 331	Introduction to Stellar Astrophysics	(3)
ASTR 432	Galaxies & Cosmology	(3)
ASTR 470-479	Special Topics in Contemporary Astrophysics	(3)
ASTR 495	Capstone Project in Astrophysics	(3)
PHYS 455	Introductory Quantum Mechanics	(3)

Total Credits to B.S. Degree (120)

Harford Physics A.S. Degree	64
Completion of Core at TU	12
Required Physics Courses	18
Completion of Advanced Physics Requirements	26