

PROGRAM
TRANSFER GUIDE



This transfer guide is intended for students pursuing an Associate Degree in Physics at Cecil College who are interested in pursuing a Bachelor's Degree in Physics: Applied & Engineering Physics Concentration at Towson University. This transfer guide outlines the courses and program requirements a student should follow to satisfy degree requirements at Cecil College in order to complete both the Cecil College and TU degrees within a total of 4 years and 126 credits.

Associate Degree in Physics

Effective Term:
Spring 2027

Bachelor's Degree in Physics: Applied & Engineering Physics Concentration

YEAR 1 - Cecil College					
Fall	TU Equivalent	Credits	Spring	TU Equivalent	Credits
CHM 103 - General Chemistry I (S)* (Core 7) ©	CHEM 131	3	EGL 102 - Composition & Literature (H) (Core 12) ©	ENGL TLL	3
CHM 113 - General Chemistry I Lab* (S) (Core 7) ©	CHEM 131L	1	MAT 201 - Calculus I with Analytic Geometry (M) (Core 3) ©	MATH 273	4
EGL 101 - College Composition (E) * (Core 2) ©	ENGL 102	3	PHY 217 - Gen Calculus Physics I with Lab (SL)* (Core 8) ©	PHYS 241	4
MAT 191 - Precalculus (M)	MATH 119	4	PSY 101 - Introduction to Psychology (SS) (Core 6) ♦ ©	PSYC 101	3
SPH 141 - Public Speaking (Core 5) ♦ ©	COMM 131	3			
TOTAL CREDITS:		14	TOTAL CREDITS:		14

YEAR 2 - Cecil College					
Fall	TU Equivalent	Credits	Spring	TU Equivalent	Credits
CSC 109 - Introduction to Programming*	COSC 175	3	MAT 203 - Multivariable Calculus (M)*	MATH 275	4
MAT 202 - Calculus II with Analytic Geometry (M)*	MATH 274	4	MAT 246 - Introduction to Differential Equations (M)*	MATH T74 (374)	3
MAT 240 - Introduction to Linear Algebra (M)	MATH 265	4	PHY 219 - General Calculus Physics III with Lab (SL)*	PHYS 243	4
PHY 218 - General Calculus Physics II with Lab (SL)*	PHYS 242	4	Chemistry/Computer Science/Engineering Elective	USEL TLL	3
			SOC 101 - Introduction to Sociology (Core 10) ♦ ©	SOCI 101	3
TOTAL CREDITS:		15	TOTAL CREDITS:		17

YEAR 3 - Towson University			
Fall	Credits	Spring	Credits
PHYS 185 Introductory Seminar in Physics*	1	PHYS 307 Introductory Mathematical Physics*	3
Core 9 Advanced Writing Seminar*	3	PHYS 312 Modern Physics II*	3
EPHY 155 Engineering Design for Society (Core 4)*	3	EPHY 335 Analog Electronics*	4
PHYS 305 Computers in Physics*	4	PHYS 385 Physics Seminar*	1
PHYS 311 Modern Physics I*	3	Core 13 Diversity and Difference	3
PHYS 361 Optics Fundamentals*	4	Physics Upper-Level Elective (consult TU catalog for approved courses)*	3
TOTAL CREDITS: 18		TOTAL CREDITS: 17	

YEAR 4 - Towson University			
Fall		Spring	
	Credits		Credits
Core 14 Ethical Perspectives	3	Core 11 The United States as a Nation	3
EPHY 337 Digital Electronics*	4	EPHY 442 Materials Characterization & Instrumentation Lab*	3
PHYS 341 Intermediate Physics Laboratory*	3	PHYS 354 Electricity and Magnetism*	4
PHYS 351 Mechanics*	4	Physics Upper-Level Elective (consult TU catalog for approved courses)*	3
PHYS 486 Physics Seminar II*	1	EPHY 373 Engineering Design in Physics*	3
TOTAL CREDITS:		TOTAL CREDITS:	
15		16	

* Denotes course that must be completed with a grade of C or better ** Must consult with a TU Academic Advisor © Core Curriculum

Notes & Recommendations from Towson University:

- *Core 1 at TU is automatically waived for all transfer students.
- *Students must follow the course selections outlined in this agreement. Failing to complete the specified courses will require them to fulfill remaining requirements at TU and could jeopardize their ability to earn a bachelor's degree within two years.
- *Courses with the ♦ symbol are recommendations only; consult with advising for alternate options to complete all coursework within four years.
- *Course equivalents ending in TLL are general lower-level elective coursework at TU.

- Bachelor's degree requirements for all students:**
- A cumulative grade point average (GPA) of 2.0 is required.
 - A C grade (2.0 GPA) or higher is required for all major courses and prerequisites.
 - 32 credits of the bachelor's degree must be completed at the upper level (courses numbered 300 or above) at TU