

Bachelor of Science in Physics

Effective Fall 2025

First Year

Fall Semester	Credits	Major	Core	Spring Semester	Credits	Major	Core
Inquiry Launch Elective	3		IL	ENG 102 College Writing II	3		RPW
ENG 101 College Writing I	3		FYV	MTH 182 Calculus II	4	X	DDL/QFR
Human Culture & Creativity Elective	3		HCC	PHY 241 University Physics I	5	X	SI/SIL
Society & Human Behavior Elective	3		SHB	African-American History & Culture Elective	3		AAHC
MTH 181 Calculus 1	4	X	QFR				
Semester Total	16			Semester Total	15		

Second Year

Fall Semester	Credits	Major	Core	Spring Semester	Credits	Major	Core
PHY 242 University Physics II	5	X	SI/SIL	PHY 325 Intro to Theoretical Physics	3	X	
MTH 281 Multivariable Calculus	4	X		STEM Elective 300/400 level	3	X	
PHY 320 Computational Physics*	3	X		Global Human Perspectives Elective	3		GHP
Diversity in Society Elective	3		DiS	General Elective	3		
				General Elective	3		
Semester Total	15			Semester Total	15		

Third Year

Fall Semester	Credits	Major	Core	Spring Semester	Credits	Major	Core
PHY 330 Modern Physics	3	X		PHY 482 Optical Materials (WAC in Major)**	3	X	WAC
PHY 340 Mechanics and Vibrations I	3	X		PHY 341 Mechanics and Vibrations II	3	X	
PHY 474 Thermal Physics	3	X		PHY 475 Statistical Physics	3	X	
General Elective	3			PHY 440 Quantum Physics	3	X	
WAC Elective	3		WAC	General Elective	3		
Semester Total	15			Semester Total	15		

Fourth Year

Fall Semester	Credits	Major	Core	Spring Semester	Credits	Major	Core
PHY 350 Electricity and Magnetism I	3	X		PHY 351 Electricity and Magnetism II	3	X	
PHY 335 (WAC) or 461 or 455 (PHY Lab elective)	3	X		PHY 335 (WAC) or 461 or 455 (PHY Lab elective)	3	X	
PHY 450 Optics and Electromagnetic Waves	3	X		PHY 498 Capstone Senior Project	1	X	
General Elective	3			General Elective	3		
General Elective	3			General Elective	4		
Semester Total	15			Semester Total	14		

Degree Total hours: 120 hours

*CIS 260, ESC 151, ESC 152, or MTH 311 may be used as substitutes: ** PHY 482 also counts towards the STEM 3XX/4XX level electives

Core Curriculum Key:	
IL = Inquiry Launch (one course)	QFR = Quantitative & Formal Reasoning (one course)
FYV = Finding Your Voice (one course, C or better required)	RPW = Research & Professional Writing (one course, C or better required)
SHB = Society & Human Behavior (one course)	HCC = Human Culture & Creativity (one course)
SI = Scientific Inquiry (two courses, one lab credit)	WAC/SPAC = Writing/Speaking Across the Curriculum Req (2 courses, one in the major)
GHP = Global Human Perspectives (one course)	AAHC = African-American History & Culture (one course)
** Inquiry Launch requirement is waived for transfer students.	DiS = Diversity in Society (one course)
	DDL = Data & Digital Literacy (one course, can be satisfied by a second QFR course)

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