PURDUE UNIVERSITY

Science Education - Physics Concentration

College of Science 2025-2026

Program Progression Guides

Disclaimer: The 2025-2026 Purdue West Lafayette catalog is considered the source for academic and programmatic requirements for students entering programs during the Fall 2025, Spring 2026, and Summer 2026 semesters. The Program Progression Guide assists students in the development of an individualized 8-semester plan. Students are encouraged to use this guide, MyPurduePlan* (online degree auditing tool) and the Student Educational Planner (SEP) as they work with their academic advisor towards the completion of their degree requirements.
Notification: Each student is ultimately responsible for knowing, monitoring and completing all degree requirements.

An undergraduate degree in the College of Science requires completion of the following degree requirements.

University Degree Requirements		
Minimum 2.0 Cumulative GPA	Minimum 124 Credits that fulfill degree requirements	32 Residency Credits (30000 and above) at a Purdue University campus

University Core Curriculum**	
• Human Cultures: Behavioral/Social Science • Human Cultures: Humanities • Information Literacy • Oral Communication University Core Curriculum Course Listing	• Quantitative Reasoning • Science • Science, Technology & Society Selective • Written Communication

Civic Literacy Proficiency - https://www.purdue.edu/provost/about/provostInitiatives/civics/

Required Major Program Courses

All Professional Education courses, including Learner (Specialty) Pathway Concentration courses, must be completed with no grade lower than a C. Overall GPA for Physics Concentration courses with the Departmental/Program Major Courses must be ≧2.5. (Required courses for the Physics Concentration that are met within Department/Program requirements, but included in the content GPA for this concentration: CHM 11500/12500/12300; PHYS 17200/17200H (note: Majors in Physics must take the Honors Versions); PHYS 27200/27200H (note: Majors in Physics must take the honors Versions)). 2.5 average in Physics concentration courses required to graduate. 2.0 Graduation GPA for a Bachelor of Science degree. 2.5 Overall GPA is required for the Teacher Education Program and Indiana Licensure. 2.50 Content GPA, as calculated by the Office of Teacher Education and Licensure, is required for the Teacher Education Program and Indiana Licensure. 3.0 Professional Education GPA is required for the Teacher Education Program and Indiana Licensure.

College of Science Core Curriculum		
• Written Communication • Technical Writing and Presentation: 0-6 credits • Computing • Cultural Diversity: 0-6 credits	• General Education: 6 credits • Great Issues in Science: 3 credits • Laboratory Science • Mathematics	• Science, Technology, and Society • Statistics • Team-Building and Collaboration

Degree Electives

Any Purdue or transfer course approved to meet degree requirements in accordance with individual departmental policies. The College of Science has identified courses that are below the disciplinary level of each program and major area of study. While similar, Not Recommended course lists vary between departments.

* This audit is not your academic transcript and it is not official notification of completion of degree or certificate requirements.

** University Core Curriculum Outcomes may be met through completion of the College of Science Core curriculum. Students should consult with their academic advisors and MyPurdue Plan for course selections.

2025-2026 Science Education - Physics Concentration - Degree Progression Guide

The College of Science has suggested the following degree progression guide for the Science Education – Physics Concentration Degree. Students will work with their academic advisors to determine their best path to degree completion.

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
2-3	EDCI 20500 - Exploring Teaching As A Career		3	EDCI 28550 - Multiculturalism And Education	
4	PHYS 17200 (HONORS)	ALEKS 85+ or SATM 670/ACTM 29 requirement	1-3	EDST 20010 - Educational Policies And Laws	
4	(CHM 11510 and CHM11520) or CHEM 12500	ALEKS 75+ or SATM 620/ACTM 26 requirement	4	PHYS 27200 (HONORS)	PHYS 17200, MA 16200 co-req
4-5	MA 16100 or MA 16500	ALEKS 85+ or SATM 670/ACTM 29 requirement	4	(CHM11610 and CHM11620)/CHM 12600/CHM 13600	CHM 11510 and 11520
3-4	Science Core Language & Culture Option		4-5	MA 16200 or MA 16600	MA 16100 or MA 16500
17-19			**16-18**		

Credit	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	EDCI 37001 - Teaching And Learning English As A New Language		2-3	EDCI/EDPS 20001 - Special Populations Seminar: Focus On Students With Disabilities And Differentiation Approaches	
2-3	EDPS 36201 - Positive Behavioral Supports		2	EDPS 23500 - Learning And Motivation	
3	PHYS 30600^ Fall only	PHYS 27200, MA 26100 co-req	3	EDPS 26501 - The Inclusive Classroom	
2	PHYS 34000^	PHYS 34400 co-req	3	PHYS 36000 Spring only	(PHYS 31000 or 33000), PHYS 34400
4	PHYS 34400^ Fall only	PHYS 27200, MA 26100 co-req	3	PHYS 30700 Spring only	PHYS 27200, MA 26100 co-req
4	MA 26100* or MA 27101	MA 16200	2	EDPS 24001	
			3	STAT 30100 (Sci, Engr Selective)	
18-19			**18-19**		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
1-3	EDCI 27000 - Introduction To Educational Technology And Computing		3	PHYS 33000 Spring only	PHYS 27200, MA 26100
1-3	EDCI 30900 - Reading In Middle And Secondary Schools: Methods And Problems		3-4	CS 17700 OR CS 15900 or CS18000	
4	PHYS 31000 Fall only	PHYS 27200, MA 26100	2-3	EDCI 42800 - Teaching Science In The Middle And Junior High School OR EDCI 55800 - Integrated Science, Technology, Engineering And Mathematics (STEM) Education Methods-Secondary	
2	PHYS/ASTR 300-level	Varies			
3	Learner Pathway Selective				
3	Science Core Option		3-4	PHYS 53600 OR PHYS 58000	PHYS 27200 (or PHYS 34400, 31000)
			3	Science Core General Education Option	
			3	PHYS 42200 Spring only	PHYS27200
14-18			**17-20**		

Credit	Fall 4th Year	Prerequisite	Credit	Spring 4th Year	Prerequisite
3	EDCI 42400 - The Teaching Of Earth And Physical Science In The Secondary Schools		12	EDCI 49800 (Teambuilding and Collaboration Experience)	EDCI 20500, 28500 AND EDPS 23500, 26501 (C- or better)
1-3	EDPS 32700 - Classroom Assessment				
1-3	EDPS 43010 - Secondary Creating And Managing Learning Environments	EDCI 20500, 28500 AND EDPS 23500, 26501 (C- or better)			
2	PHYS 45000	PHYS 42200			
3	Science Core Great Issues Selection				
3	Science Core General Education Selection				
2	Elective				
15-17			**12**		

Science Core Curriculum Options	
(one course needed for each requirement unless otherwise noted)	
Options recommended for first- and second-year students	**Options recommended for third- and fourth-year students**
Written Communication[UC] Foreign Language and Culture[UC] (2 courses + EDCI 28500) Computing (CS 17700 or CS 15900) /Teamwork Foreign Language and Culture[UC] (3 courses needed)	Technical Writing and Presentation[UC] (COM 217 recommended) Science, Technology, and Society[UC] Great Issues General Education[UC] (2 courses + EDPS 23500)

UC Select courses may also satisfy a University Core Curriculum requirement; see the University Core Requirement course list for approved courses. Students must have 32 credits at the 30000 level or above taken at Purdue.