

Program Progression Guide

Disclaimer: The [2024-2025 Purdue West Lafayette catalog](#) is considered the source for academic and programmatic requirements for students entering programs during the Fall 2024, Spring 2025, and Summer 2025 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 120 Credits that fulfill degree requirements	32 Residency Credits (30000 and above) at a Purdue University campus
University Core Curriculum**		
<ul style="list-style-type: none"> Human Cultures: Behavioral/Social Science Human Cultures: Humanities Information Literacy Oral Communication <p>University Core Curriculum Course Listing</p>	<ul style="list-style-type: none"> Quantitative Reasoning Science Science, Technology & Society Selective Written Communication 	
Required Major Program Courses		
Departmental specific requirements. 3.0 average in PHYS/ASTR classes required to graduate. Minimum 3.0 cumulative GPA		
College of Science Core Curriculum		
<ul style="list-style-type: none"> Written Composition – 3 credits Technical Writing and Presentation - 3 credits Teaming & Collaboration (NC) General Education - 9 credits 	<ul style="list-style-type: none"> Foreign Language & Culture – 9 credits Great Issues - 3 credits Laboratory Science - 8 credits Science Science, Technology & Society - 3 credits 	<ul style="list-style-type: none"> Mathematics - 6-10 credits Statistics - 3 credits Computing - 3 credits
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.

2024-25 Applied Physics Honors Degree Progression Guide

The Physics Department has *suggested* the following degree progression guide for the Physics Degree. Students will work with their academic advisors to determine their best path to degree completion. Course pre-requisites are specific to this degree plan.

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4	PHYS 17200 Honors sections ^{UC}	ALEKS 85	4	PHYS 27200 Honors sections ^{UC}	PHYS 17200 + Co-req: Calculus II
4-5	Calculus I Option ^{UC}	ALEKS 85	4	CHM 11600 ^{UC}	CHM 11500
4	CHM 11500 ^{UC}	ALEKS 75	4-5	Calculus II Option ^{UC}	Calculus I C- or higher
3-4	Science Core Option – Written Communication		3-4	Science Core Option	
15-17			15-17		

Credit	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	PHYS 30600	PHYS 272 + Co-req Calculus III	3	PHYS 30700	PHYS 272 + Co-req MA 261
1	PHYS 34000	Co-req PHYS 344	3	PHYS 42200	PHYS 272
4	PHYS 34400	PHYS 272 + Co-req Calculus III	3-4	Science Core Option -Computing	
4-5	Calculus III Option ^{UC}	Calculus II C- or higher	3	Science Core Option- Statistics	
3-4	Science Core Option		3-4	Science Core Option	
15-17			15-17		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
3	PHYS 41000	PHYS 272 + Co-req Calculus III	3	PHYS 43000	(PHYS 272 + coreq Calculus III and (PHYS 306 or MA 362)) C- or better
3	PHYS 46000	PHYS 344 + coreq PHYS410	3	Major Selective	Prerequisites may vary
2	PHYS 45000	PHYS 42200	3	Major Selective	Prerequisites may vary
3	Science Core Option – COM 21700		3	Major Selective	Prerequisites may vary
3	Science Core Option		3	Science Core Option	
14			15		

Credit	Fall 4th Year	Prerequisite	Credit	Spring 4th Year	Prerequisite
4	PHYS 41600	Coreq (PHYS 410 and 430 and 460) C- or better	3	Major Selective	Prerequisites may vary
3	PHYS 59300		3	Major Selective	Prerequisites may vary
3	Major Selective	Prerequisites may vary	3	Major Selective	Prerequisites may vary
3	Major Selective	Prerequisites may vary	3	Science Core Option	
3	Science Core Option – Great Issues		3	Science Core Option	
16			15		

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} Statistics (STAT 30100 or 35000) Computing (CS 17700, CS 17600 or CS 15900) Foreign Language and Culture ^{UC} (3 courses needed)	Technical Writing and Presentation ^{UC} (COM 217 recommended) General Education ^{UC} (3 courses needed) Great Issues

^{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.