PURDUE UNIVERSITY

Applied Physics
College of Science

2022-2023

Program Progression Guide

Disclaimer: The 2022-2023 Purdue West Lafayette catalog is considered the source for academic and programmatic requirements for students entering programs during the Fall 2022, Spring 2023, and Summer 2023 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**	
• 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

Required Major Program Courses
Departmental specific requirements. 2.0 average in PHYS/ASTR classes required to graduate. Minimum 2.0 cumulative GPA

College of Science Core Curriculum		
• Freshman Composition – 3 credits • Technical Writing and Presentation - 3 credits • Teaming & Collaboration (NC) • General Education - 9 credits	• Foreign Language & Culture – 9 credits • Great Issues - 3 credits • Laboratory Science - 8 credits Multidisciplinary - 3 credits	• 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. Consult the No Count course list for courses, which may not be used to meet any College of Science degree requirement.

* 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.

2022-23 Applied Physics 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		3-4	Science Core Option	
0	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	
4-5	Calculus III Option[UC]	Calculus II C- or higher	3	Science Core Option	
3-4	Science Core Option		3	Science Core Option	
			1	Elective (PHYS 23500)	
15-17			**16-17**		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
4	PHYS 31000	PHYS 272 + Co-req Calculus III	3	PHYS 36000	(PHYS 310 or 330) + PHYS 344
3	PHYS 33000	PHYS 272 + Co-req Calculus III	3	PHYS 51500	Co-req PHYS 310 + 344 + 360 + 330
2	PHYS 45000	PHYS 42200	3	Science Core Option	
3-6	Science Core Option		3	Science Core Option	
3-4	Science Core Option		3	Science Core Option	
15-19			**15**		

Credit	Fall 4th Year	Prerequisite	Credit	Spring 4th Year	Prerequisite
3	Major Selective	Pre-reqs may vary	3	Major Selective	Pre-reqs may vary
3	Major Selective	Pre-reqs may vary	3	Major Selective	Pre-reqs may vary
3	Major Selective	Pre-reqs may vary	3	Major Selective	Pre-reqs may vary
3	Science Core Option		3	Science Core Option	
3	Elective		1-3	Science Core Option	
			2	Elective	
15			**15-17**		

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
Freshman Composition[UC]	Technical Writing and Presentation[UC] (COM 217 recommended)
General Education[UC] (3 courses needed)	Statistics (STAT 30100 or 35000)
Foreign Language and Culture[UC] (3 courses needed)	Computing (CS 17700 or CS 15900)
Multidisciplinary Experience[UC]	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.