PURDUE UNIVERSITY

Applied Statistics
College of Science

2025-2026

Program Progression Guide

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 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	• Quantitative Reasoning • Science • Science, Technology & Society Selective • Written Communication

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

Required Major Program Courses
Students should strive to earn a C or better. Average GPA in courses must be 2.00 in **Required Major Courses**. 2.0 Graduation GPA required for Bachelor of Science degree.

College of Science Core Curriculum		
• Written Communication: 3-4 credits • Technical Writing & Presentation: 0-6 credits • Computing: 3-4 credits • Language and Culture: 1-9 credits	• General Education: 9 credits • Great Issues in Science: 3 credits • Laboratory Science: 6-8 credits • Mathematics: 8-10 credits	• Science Technology & Society: 1-3 credits • Statistics: 3 credits • Team-Building & Collaboration: 0-3 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.

2025-2026 Applied Statistics Degree Progression Guide

The Statistics Department has *suggested* the following degree progression guide for the Applied Statistics Degree. Students will work with their academic advisors to determine their best path to degree completion.

Credit	Fall 1st Year	Prerequisite	Credit	Spring 1st Year	Prerequisite
4-5	Calculus I Option	ALEKS 85+ or SATM 670/ACTM 29 requirement	4-5	Calculus II Option	Calculus I, C- or higher
3-4	Science Core Option		3-4	Programming Option	
3-4	Science Core Option		3-4	Science Core Option	
1	Elective (STAT 10100 First Year Statistics Seminar)		3	Elective	
4	Elective		2	Elective	
15-18			**15-18**		

Credit	Fall 2nd Year	Prerequisite	Credit	Spring 2nd Year	Prerequisite
4-5	Calculus III Option *	Calculus II, C- or higher	3	MA 35100 Elementary Linear Algebra	Calculus III, C- or higher
3-4	Science Core Option		3	STAT 35000 or STAT 35500	Calculus II, C- or higher
3-4	Science Core Option		3	COM 21700 Science Writing & Presentation	
5	Elective		6	Elective	
15-18			**15**		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
3	MA/STAT 41600 * Probability (or STAT 51600)	Calculus III, C- or higher	3-4	Applied STAT Selective	Varies by Class
3-4	Science Core Option		3	STAT 41700 Statistical Theory (or STAT 51700)	STAT 41600 & 35000 C- or higher
3-4	Science Core Option		3-4	Science Core Option	
3	Elective		6	Elective	
3	Elective				
15-16			**15-17**		

Credit	Fall 4th Year	Prerequisite	Credit	Spring 4th Year	Prerequisite
3	STAT 51200 Applied Regression Analysis (or STAT 47401 ONLY if dual major with Actuarial Science)	STAT 35000 or 41700 C- or higher	3-4	Applied STAT Selective	Varies by Class
3	Great Issues Option		3	MA 36200 or STAT 42000	Varies by Class
3	Science Core Option		3-4	Science Core Option	
6	Elective (Science, Technology & Society Selective Course)		3	Free Elective	
15			**15-18**		

Superscript of * (eg Calculus I Option*) indicates a course a student should earn a minimum of a C.
Courses in ( ) are recommended.

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 Communcation UC	Technical Writing and Presentation UC (COM 217 recommended)
Computing (CS 17700 or CS 15900)	Science Technology and Society UC
Language and Culture UC (3 courses needed)	General Education UC (3 courses needed)
Laboratory Science (2 course sequence)	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.