

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 	<ul style="list-style-type: none"> 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 B- or better. Average GPA in courses must be 2.00 or higher in Required Major Courses . 2.0 Graduation GPA required for Bachelor of Science degree.		
College of Science Core Curriculum		
<ul style="list-style-type: none"> Written Communication: 3-4 credits Technical Writing & Presentation: 0-6 credits Computing: 3-4 credits Cultural Diversity: 0-9 credits 	<ul style="list-style-type: none"> General Education: 9 credits Great Issues in Science: 3 credits Laboratory Science: 6-8 credits Mathematics: 8-10 credits 	<ul style="list-style-type: none"> Science Technology and Society: 3 credits Statistics: 3 credits Team-Building and 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.

2024-2025 Core Mathematics Degree Progression Guide

The Mathematics Department has *suggested* the following degree progression guide for the Core Mathematics 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
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 (MA 10800 recommended)		5	Elective	
3-4	Elective				
15-17			15-18		

Credit	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
4	MA 26100 Multivariate Calculus	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	
3	Elective (MA 30100 recommended)	Calculus II, C- or higher	3-4	Science Core Option	
2	Elective		1-3	Elective	
15-18			15		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
4	MA 36600 Ordinary Differential Equations	Co-req or pre MA 35100 C- or higher	3	MA 35301 Linear Algebra II	MA 35100 C- or higher
3	MA 34100 or MA 44000	Calculus III (grade requirement depends on course)	3	MA Selective	Varies by Class
3-4	Science Core Option		3-4	Science Core Option	
5	Elective		3	Elective	
			3	Elective	
15-16			15-16		

Credit	Fall 4th Year	Prerequisite	Credit	Spring 4th Year	Prerequisite
3	MA 45300 or MA 45000 Algebra	MA 35100 (grade requirement depends on course)	3	Math Selective	Varies by Class
3	MA 42500 Elements of Complex Analysis	Varies by Class	3	Math Selective	Varies by Class
3	Great Issues Option		3	Elective	
3-4	Science Core Option		3	Elective	
3-6	Elective (Science, Technology & Society Selective Course)		3	Elective	
15-18			15		

Superscript of * (eg Calculus I Option*) indicates a course a student should earn a minimum of a B- see advisor for further details. 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 Communication ^{UC}	Technical Writing and Presentation ^{UC} (COM 217 recommended)
Computing (CS 17700 or CS 15900)/Teamwork	Science Technology and Society ^{UC}
Foreign Language and Culture ^{UC} (3 courses needed)	General Education ^{UC} (3 courses needed)
Laboratory Science (2 course sequence)	Great Issues