PURDUE
UNIVERSITY

Mathematics/Business
College of Science

2023-2024

Program Progression Guide

Disclaimer: The 2023-2024 Purdue West Lafayette catalog is considered the source for academic and programmatic requirements for students entering programs during the Fall 2023, Spring 2024, and Summer 2024 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 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		
• First-Year Composition: 3-4 credits • Technical Writing and Presentation: 0-6 credits • Computing: 3-4 credits • Cultural Diversity: 0-9 credits	• General Education: 6 credits • Great Issues in Science: 3 credits • Laboratory Science: 6-8 credits • Mathematics: 8-10 credits	• Science, Technology, and Society: 0-3 credits • Statistics: 3 credits • Team-Building and Collaboration: 0-3 credits
Degree Electives		
No Count Courses are not allowed for credit. Overlapping Course Content courses - only one course can be used for courses considered to have overlapping content. A course can only be used once in the Major Course area. Only one introductory programming language course can be used for credit.		

* 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.

2023-2024 Mathematics/Business Degree Progression Guide

The Mathematics Department has *suggested* the following degree progression guide for the Mathematics/Business 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	Free Elective (MA 10800 recommended)		5	Free Elective	
3-5	Free Elective				
16-17			**15**		

Credit	Fall 2nd Year	Prerequisite	Credits	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	MA 37300 Financial Mathematics		3	Minor Course	Varies
3-4	Science Core Option		3	STAT 35000 or STAT 35500	Calculus II, C- or higher
3-4	Minor Course	Varies	3	COM 21700	
0-2	Elective		3	Free Elective	
15-16			**15**		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
3	MA/STAT 41600 or STAT 51600 Probability	Calculus III, C- or higher	3	MA 35301 Linear Algebra II	MA 35100 C- or higher
3	MA 34100 or MA 44000	Varies	3	Minor course	Varies
3-4	Science Core Option		3-4	Science Core Option	
3-4	Science Core Option		3-4	Science Core Option	
3	Free elective		3	Free Elective	
16-18			**15-17**		

Credit	Fall 4th Year	Prerequisite	Credit	Spring 4th Year	Prerequisite
3	MA 43200 Elementary Stochastic Processes	C- or better in STAT 41600	3	STAT 51200 Applied Regression Analysis	Jr/Sr Standing; STAT 35000, C- or higher
4	MA 36600 Ordinary Differential Equations	MA 35100, C- or higher/may be concurrent	3	Science Core Option	
3	STAT 41700 or STAT 51700		3	Minor Course	Varies
3	Minor Course	Varies	3	Minor Course	Varies
3-4	Science Core Option		3	Free Elective	
3	Science Core Option				
16-17			**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] (2 courses needed + MGMT 20000)
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.