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

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

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

Required Major Program Courses

A minimum of 32 semester credits of upper level (30000+) required. Average GPA in courses must be 3.50 or higher excluding Calculus III Option AND Average GPA in MA 44000, 44200, and 45000 must be 3.50 or higher.

College of Science Core Curriculum

- Freshman Composition: 3-4 credits
- Technical Writing and Presentation: 3-6 credits
- Teaming & Collaboration (NC)
- General Education - 9 credits

- Foreign Language & Culture: 0-9 credits
- Great Issues - 3 credits
- Laboratory Science: 6-8 credits
- Multidisciplinary: 0-3 credits

- Mathematics: 6-10 credits
- Statistics: 3 credits
- Computing: 3-4 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.

2022-2023 Core Mathematics Honors Degree Progression Guide

The Mathematics Department has *suggested* the following degree progression guide for the Core Mathematics Honors 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	Science Core Option	
3-4	Science Core Option		3-4	Science Core Option	
1	Free Elective (MA 10800)		2	Free Elective	
3-4	Free Elective		3	Free Elective	
15-18			**15-18**		

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
3-4	Science Core Option		4	MA 36600 Ordinary Differential Equations	Co-req or pre MA 35100 C- or higher
3-4	Science Core Option		3-4	Science Core Option	
3	Free Elective (MA 30100)	Calculus II, C- or higher	3-4	Science Core Option	
2	Free Elective		0-3	Free Elective	
15-18			**15-16**		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
3	MA 42500 - Elements Of Complex Analysis	MA 35100 C- or higher	3	MA 35301 Linear Algebra II	MA 35100 C- or higher
3	MA 34100 (or MA 44000 *requires MA 35301 - students with calculus credit prior to begining at Purdue may work with their advisor to alter their plan to meet pre-requisites for MA 44000 in Fall junior year. Students beginning in Calculus I first semester should plan to take MA 44000 in a later fall semester*)	Calculus III (grade varies depending on course) **MA 44000 requires MA 35301 with B- or better.**	3	STAT 35000 Introduction to Statistics	Calculus II, C- or higher
3-4	Science Core Option		3-4	Science Core Option	
3-4	Science Core Option		3	Free Elective	
2	Free Elective		3	Free Elective	
15-17			**15-16**		

Credit	Fall 4th Year	Prerequisite	Credit	Spring 4th Year	Prerequisite
3	MA 45000 Algebra Honors	**Requires MA 35301 with B- or better**	3	MA 44200	**Requires MA 35301 with B- or better**
3	MA Selective (MA 44000 if not taken in place of MA 34100)	Varies by Class	3	Math Selective	Varies by Class
0-4	Science Core Option		3-4	Science Core Option	
3-4	Science Core Option		3	Free Elective	
3-6	Free Elective (Science, Technology & Society Selective Course)		3	Free 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**
Freshman Composition[UC]	Technical Writing and Presentation[UC] (COM 217 recommended)
Computing (CS 17700 or CS 15900)/Teamwork	Multidisciplinary Experience[UC]
Foreign 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.