

## Program Progression Guide

**Disclaimer:** The Purdue West Lafayette catalog is considered the source for academic and programmatic requirements for students entering programs during the Fall 2021, Spring 2022, and Summer 2022 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"> <li>Human Cultures: Behavioral/Social Science</li> <li>Human Cultures: Humanities</li> <li>Information Literacy</li> <li>Oral Communication</li> </ul>	<ul style="list-style-type: none"> <li>Quantitative Reasoning</li> <li>Science</li> <li>Science, Technology &amp; Society Selective</li> <li>Written Communication</li> </ul>	
Civic Literacy Proficiency - <a href="https://www.purdue.edu/provost/about/provostInitiatives/civics/">https://www.purdue.edu/provost/about/provostInitiatives/civics/</a>		
Required Major Program Courses		
A minimum of 32 semester credits of upper level (30000+) required. Average GPA in courses must be 2.00 or higher in <b>Required Major Courses</b> .		
College of Science Core Curriculum		
<ul style="list-style-type: none"> <li>Freshman Composition: 3-4 credits</li> <li>Technical Writing and Presentation: 3-6 credits</li> <li>Teaming &amp; Collaboration (NC)</li> <li>General Education - 9 credits</li> </ul>	<ul style="list-style-type: none"> <li>Foreign Language &amp; Culture: 0-9 credits</li> <li>Great Issues - 3 credits</li> <li>Laboratory Science: 6-8 credits</li> <li>Multidisciplinary: 0-3 credits</li> </ul>	<ul style="list-style-type: none"> <li>Mathematics: 6-10 credits</li> <li>Statistics: 3 credits</li> <li>Computing: 3-4 credits</li> </ul>
Degree Electives		
Any Purdue or transfer course approved to meet degree requirements in accordance with individual departmental policies. Consult the <u>No Count course list</u> 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.

## 2021-2022 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	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	
<b>15-17</b>			<b>15-18</b>		

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		3	STAT 35000 Introduction to Statistics	Calculus II, 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		1-3	Free Elective	
<b>15-18</b>			<b>15</b>		

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	
3	Free Elective		3	Free Elective	
2	Free Elective		3	Free Elective	
<b>15-16</b>			<b>15-16</b>		

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	Science Core Option		3	Free Elective	
3-4	Science Core Option		3	Free Elective	
3-6	Free Elective (Science, Technology & Society Selective Course)		3	Free Elective	
<b>15-18</b>			<b>15</b>		

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 <sup>UC</sup> Computing (CS 17700 or CS 15900)/Teamwork Foreign Language and Culture <sup>UC</sup> (3 courses needed) Laboratory Science (2 course sequence)	Technical Writing and Presentation <sup>UC</sup> (COM 217 recommended) Multidisciplinary Experience <sup>UC</sup> General Education <sup>UC</sup> (3 courses needed) Great Issues