

## Program Progression Guide

**Disclaimer:** The [2018-2019 Purdue West Lafayette catalog](#) is considered the source for academic and programmatic requirements for students entering programs during the Fall 2018, Spring 2019, and Summer 2019 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>	
Required Major Program Courses		
A minimum of 32 semester credits of upper level (30000+) required. Students must earn a 2.0 average GPA among required MA/STAT/CS courses required for major.		
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 <a href="#">No Count course list</a> 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.

## 2018-19 Applied Mathematics Degree Progression Guide

The Mathematics Department has *suggested* the following degree progression guide for the Applied Mathematics Degree. Students will work with their academic advisors to determine their best path to degree completion. Course pre-requisites are specific to this degree plan. Courses meeting the College of Science Core Curriculum requirements are marked with “SCC” and a letter corresponding to the legend below:

### College of Science Core Curriculum (SCC)

- |                                       |                       |
|---------------------------------------|-----------------------|
| A. Freshman Composition               | G. Laboratory Science |
| B. Technical Writing and Presentation | H. Multidisciplinary  |
| C. Teaming and Collaboration          | I. Mathematics        |
| D. General Education                  | J. Statistics         |
| E. Foreign Language and Culture       | K. Computing          |
| F. Great Issues                       |                       |

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4-5	Calculus I Option <sup>CC</sup> SCC-I	ALEKS 85+	4-5	Calculus II Option SCC-I	Calculus I, C- or higher
3-4	ENGL 10600/10800 SCC-A		3-4	Computing Option (rec CS 17700 & meets Teambuilding and Collaboration Experience) SCC-K	
3-4	Language I Option SCC-E		3-4	Language II Option SCC-E	Language 10100
1	Free Elective (MA 10800)		3	Free Elective	
3-4	Free Elective		2	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 <sup>CC</sup> Elementary Linear Algebra	Calculus III, C- or higher
3-4	Laboratory Science I Option SCC-G		3	STAT 35000 Introduction to Statistics SCC-J	Calculus II, C- or higher
3-4	Language III/Culture/Diversity Option SCC-E	See Course Info	3-4	Laboratory Science II Option SCC-G	Lab Sci Option I
3	Free Elective (MA 30100)	Calculus II, C- or higher	3-6	Technical Writing Option and Technical Presenting Option (COM 21700) SCC-B	
2	Free Elective		0-3	Free Elective	
<b>15-18</b>			<b>15-16</b>		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
4	MA 36600 Ordinary Differential Equations	Calculus III; co-req or pre MA 35100 C- or higher	3	MA 35300 Linear Algebra II with Applications	MA 35100 C- or higher
3	MA 34100 or MA 44000	Calculus III, C- or higher	3	Advance Calculus Selective	Varies by Class
3	General Education I Option SCC-D		3	CS 31400/MA 51400 Numerical Methods	CS Programming and MA 35100 C or higher
3	Free elective (Science, Technology & Society Selective Course)		3	General Education II Option SCC-D	
2	Free Elective		3	Free Elective	
<b>15</b>			<b>15</b>		

Credit	Fall 4th Year	Prerequisite	Credit	Spring 4th Year	Prerequisite
3	MA 45300 or MA 45000	MA 35100, C- or higher	3	Applied Math Selective	Varies by Class
3	MA 30300 or MA 30400	MA 36600 and MA 35100 D- or higher	3	Math/Statistics Elective	Varies by Class
0-3	Multidisciplinary Experience SCC-H		3	Great Issues Option SCC-F	Jr/Sr Standing; may require COM or ENGL
3	General Education III Option SCC-D		3	Free Elective	
3-6	Free Elective		3	Free Elective	
<b>15-18</b>			<b>15</b>		

Superscript of <sup>CC</sup> (eg Calculus I Option <sup>CC</sup>) indicates a Critical Course. Student should each minimum of a B- see advisor for further details. Courses in ( ) are recommended.