

**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.

<b>University Degree Requirements</b>		
Minimum 2.0 Cumulative GPA	Minimum 120 Credits that fulfill degree requirements	32 Residency Credits (30000 and above) at a Purdue University campus
<b>University Core Curriculum**</b>		
<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>	
<b>Required Major Program Courses</b>		
<p>A minimum of 32 semester credits of upper level (30000+) required. Students must earn a 2.5 average in MATH/STAT/CS courses required for major. 3.0 average in professional education courses with no grade lower than C-. 2.5 Graduation GPA required for Bachelor of Science degree. *For Licensing – Students must pass GATE C</p>		
<b>College of Science Core Curriculum</b>		
<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>
<b>Degree Electives</b>		
<p>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.</p>		

\* 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 Core Mathematics Degree Progression Guide

The Mathematics Department has *suggested* the following degree progression guide for the Mathematics Education 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/SCLA 10100 SCC-A		4	CS 17700 Programming With Multimedia Objects SCC-K	Varies
3-4	Language I Option SCC-E		3-4	Language II Option SCC-E	Language 10100
1	Free Elective (MA 10800)		1	Free Elective (EDCI Math Education Seminar RECOMMENDED)	
3	EDCI 20500 Exploring Teaching As A Career		3	EDCI 28500 Multiculturalism and Education SCC-E	
1	Free Elective				
<b>15-18</b>			<b>15-17</b>		

Credit	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
4-5	Calculus III Option	Calculus II, C- or higher	3	MA 37500 Introduction To Discrete Mathematics	Calculus III, C- or higher
3	MA 46000 Geometry	Calculus II, C- or higher	3	STAT 31100 Introductory Probability	Calculus II, C- or higher
3-4	Laboratory Science I Option SCC-G		3-4	Laboratory Science II Option SCC-G	Lab Sci Option I
3	EDCI 27000 Introduction To Educational Technology and Computing		3-6	Technical Writing Option and Technical Presenting Option (COM 21700) SCC-B	
1	Free Elective		1	Free Elective (EDCI Math Education Seminar RECOMMENDED)	
1	EDST 20010: Educational Policies and Law				
<b>15-17</b>			<b>13-17</b>		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
3	MA 30100 An Introduction To Proof Through Real Analysis	Calculus II, C- or higher	3	STAT 35000 Introduction To Statistics SCC-J	Calculus II, C- or higher
3	MA 35100 Elementary Linear Algebra	Calculus III, C- or higher	4	MA 36600 Ordinary Differential Equations	Co-req or pre MA 35100, C- or higher
3	EDPS 23500 Learning And Motivation SCC-D		3	Great Issues Options SCC-F	Jr/Sr Standing; may require COM or ENGL
3	EDPS 26500 The Inclusive Classroom		3	EDCI 42500 Teaching of Mathematics in Secondary Schools	EDCI 20500, 28500 and EDPS 23500, 26500 (C- or better)
1	EDPS 32700 Classroom Assessment		1	EDPS 43010 Secondary Creating And Managing Learning Environments	
3	General Education Option I SCC-D		1	Free Elective (EDCI Math Education Seminar RECOMMENDED)	
<b>16</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	16	EDCI 49800 Supervised Teaching SCC-H	EDCI 20500, 28500 and EDPS 23500, 26500 (C- or better)
3	MA 48400				
3	General Education Option II SCC-D				
2	EDCI 42600 Teaching Mathematics In The Middle And Junior High School	EDCI 20500, 28500, 42500 and EDPS 23500, 26500 (C- or better)			
4	Free Elective (Science, Technology & Society Selective Course)				
<b>15</b>			<b>16</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.