# Mathematics Education
## College of Science

2025-2026

# Program Progression Guide

**Disclaimer**: The 2025-2026 Purdue West Lafayette catalog is considered the source for academic and programmatic requirements for students entering programs during the Fall 2025, Spring 2026, and Summer 2026 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 2.5 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<br>• Human Cultures: Humanities<br>• Information Literacy<br>• Oral Communication | • Quantitative Reasoning<br>• Science<br>• Science, Technology & Society Selective<br>• Written Communication |

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

**Required Major Program Courses**

All Professional Education courses, including Learn (Specialty) Pathway Concentration courses, must be completed with no grade lower than a C. All Professional Education Courses, including Learn (Specialty) Pathway Concentration courses, are calculated into the Professional Education GPA (B average with no grade lower than a C). 2.5 Graduation GPA required for Bachelor or Science degree. Average GPA in courses must be 2.50 or higher in **Required Major Courses (MATH/STAT/CS CONTENT COURSES)**. Average GPA in courses must be 3.00 or higher in **Required Major Courses (MATH/STAT/CS CONTENT)**. 2.5 overall GPA is required for the Teacher Education Program and Indiana Licensure. 2.5 Content GPA, as calculated by the Office of Teacher Education and Licensure, is required for the Teacher Education Program and Indiana Licensure. 3.0 Professional Education GPA is required for the Teacher Education Program and Indiana Licensure.

**College of Science Core Curriculum**

| | | |
|---|---|---|
| • Written Communication: 3-4 credits<br>• Technical Writing and Presentation: 0-6 credits<br>• Computing<br>• Language and Culture: 1-9 credits | • General Education: 9 credits<br>• Great Issues in Science: 3 credits<br>• Laboratory Science: 6-8 credits<br>• Mathematics: 8-10 credits | • Science, Technology, and Society: 1-3 credits<br>• Statistics: 3 credits<br>• Team-Building and Collaboration: 0-3 credits |

**Degree Electives**

Any Purdue or transfer course approved to meet degree requirements in accordance with individual departmental policies. The College of Science has identified courses that are below the disciplinary level of each program and major area of study. While similar, Not Recommended course lists vary between departments.

* 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.

# 2025-2026 Mathematics Education 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.

| 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 (Language & Culture) | | 3-4 | Science Core Option | |
| 1-3 | EDST 20010 Ed Policies and Law | | 3-4 | Science Core Option | |
| 1 | Free Elective (MA 10800 recommended) | | 1 | EDCI 22500 MAED Seminar | |
| 3 | EDCI 20500 Exploring Teaching As A Career | | 3 | EDCI 28550 | |
| 3-4 | Free Elective | | | | |
| **15-17** | | | **14-17** | | |

| 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 | Science Core Option | | 3-4 | Science Core Option | |
| 2-3 | EDPS 36201 Positive Behavioral Supports | | 1 | EDCI/EDPS 20001 Special Populations Seminar | |
| 3 | EDCI 37001 Teaching and Learning ESL | | 2-3 | EDPS 23500 Learning and Motivation | |
| | | | 2 | EDPS 24001 | |
| | | | 2 | EDPS 26501 The Inclusive Classroom | |
| **15-18** | | | **14-18** | | |

| Credit | Fall 3rd Year | Prerequisite | Credit | Spring 3rd Year | Prerequisite |
|---|---|---|---|---|---|
| 3 | MA 30100 or MA 34100 | Calculus II, C- or higher | 3 | STAT 35000 Introduction To Statistics | 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 |
| 1-3 | EDCI 27000 Into to Ed Tech | | 3 | Science Core Option | |
| 1-3 | EDCI 30900 Reading in Secondary Schools | | 3 | EDCI 42500 Teaching of Mathematics in Secondary Schools | EDCI 20500, 28500 and EDPS 23500, 26500 (C- or better) |
| 3 | Learner Specialty Pathway Course | | 3 | Science Core Option | |
| 3 | Programming Option | | | | |
| 3 | Science Core Option | | | | |
| **17-18** | | | **16** | | |

| Credit | Fall 4th Year | Prerequisite | Credit | Spring 4th Year | Prerequisite |
|---|---|---|---|---|---|
| 3 | MA 45300 or MA 45000 | MA 35100, C- or higher | 12 | EDCI 49800 Supervised Teaching SCC-H | EDCI 20500, 28500 and EDPS 23500, 26500 (C- or better) |
| 3 | MA 48400 | | | | |
| 3 | Science Core Option (STS) | | | | |
| 3 | EDCI 42600 Teaching Mathematics In The Middle And Junior High School | EDCI 20500, 28500, 42500 and EDPS 23500, 26500 (C- or better) | | | |
| 1-3 | EDPS 32700 Classroom Assessment | | | | |
| 1-3 | EDPS 43010 Sec. Creating & Managing | | | | |
| **15-16** | | | **12** | | |

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. See Catalog for official per-requisites for classes.

| 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 |
| 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