PURDUE UNIVERSITY

Mathematics Education
College of Science

2022-2023

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 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 2.50 or higher in Required Major Courses. (higher of grade between STAT 35000 and MA 48400 is used). 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

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 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		3-4	Science Core Option	
1-3	EDST 20010 Ed Policies and Law		3-4	Science Core Option	
1	Free Elective (MA 10800)		1	EDCI 22500 MAED Seminar	
3	EDCI 20500 Exploring Teaching As A Career		2-3	EDCI 28500 Multiculturalism and Education	
3-4	Free Elective		1-3	EDCI 35000 Community Issues and App for Ed	
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	
1	EDCI/EDPS 20002 Seminar ESL		1	EDCI/EDPS 20001 Special Populations Seminar	
	EDCI 37001 Teaching and Learning ESL		2-3	EDPS 23500 Learning and Motivation	
1	EDPS 24000 Children with Gifts, Cre, Talent		1	EDPS 24800 Diff. Curriculum and Instruction	
2-3	EDPS 36201 Positive Behavioral Supports		2	EDPS 26501 The Inclusive Classroom	
16-18			**15-16**		

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	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	Science Core 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				
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. Creat & Manage				
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**
Freshman Composition[UC] Computing (CS 17700 or CS 15900)/Teamwork Foreign Language and Culture[UC] (3 courses needed) Laboratory Science (2 course sequence)	Technical Writing and Presentation[UC] (COM 217 recommended) Multidisciplinary Experience[UC] General Education[UC] (2 courses needed + EDPS 23500) 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