PURDUE UNIVERSITY

Mathematics Education
College of Science

MATH-BS
Code-MAED

Departmental/Program Major Courses (101-115 credits)

Required Major Courses (44-47 credits): Average GPA in courses must be 2.50

_____ (4-5) Calculus I Selective – Select from MA 16100, MA 16500 ***(satisfies Quantitative Reasoning for core)***
_____ (4-5) Calculus II Selective – Select from MA 16200, MA 16600, MA 17300, MA 18100 ***(satisfies Quantitative Reasoning for core)***
_____ (4-5) Calculus III Selective – Select from MA 26100, MA 17400, MA 18200, MA 27100 ***(satisfies Quantitative Reasoning for core)***
_____ (3) MA 35100 Elementary Linear Algebra
_____ (4) CS 17700 Programming With Multimedia Objects ***(satisfies Computing Requirement)***
_____ (3) MA 46000 Geometry
_____ (3) MA 37500 - Introduction To Discrete Mathematics
_____ (3) STAT 31100 Introductory Probability or MA/STAT 41600 Probability or STAT 51600 - Basic Probability And Applications
_____ (3) MA 30100 An Introduction To Proof Through Real Analysis
_____ (3) STAT 35000 Introduction To Statistics ***(satisfies Statistics Requirement)***
_____ (4) MA 36600 Ordinary Differential Equations
_____ (3) MA 45300 - Elements Of Algebra I or MA 45000 - Algebra Honors
_____ (3) MA Selective: MA Elective must be 300 level or higher (CANNOT be MA 373, 303, 304, 402, 470). Approved courses can be found at LINK or MA 48400 (you must apply and be accepted for MA 48400 – see advisor for more details)

_____ **Educational Program Course Requirements (33 credits)** Average GPA in courses must be 3.00 – no grade lower than C-

_____ (3) EDCI 27000 Introduction To Educational Technology And Computing
_____ (3) EDCI 20500 Exploring Teaching As A Career
_____ (3) EDCI 28500 Multiculturalism And Education ***(satisfies Behavior/Social Science for core) (satisfies Language III)***
_____ (3) EDPS 23500 Learning And Motivation ***(satisfies Behavior/Social Science for core) (satisfies General Education Requirement)***
_____ (3) EDPS 26500 The Inclusive Classroom ***(satisfies Behavior/Social Science for core)***
_____ (3) EDST 20000 History And Philosophy Of Education ***(satisfies Humanities for core)***
_____ (3) EDCI 42500 Teaching of Mathematics in Secondary Schools ***(satisfies Multidisciplinary Requirement)***
_____ (2) EDCI 42600 Teaching Mathematics In The Middle And Junior High School
_____ (10) EDCI 49800 Supervised Teaching ***(satisfies Teamwork Experience requirement))***

_____ **Other Departmental /Program Course Requirements (24-35 credits)**

_____ (3-4) ENGL 10600 or ENGL 10800 - ***(satisfies Written Communication and Information Literacy for core)***
_____ (3-4) Language I Selective –LINK
_____ (3-4) Language II Selective – LINK
_____ (0-3) Technical Writing Selective LINK ***(Select courses COULD satisfy Oral Communication for core)***
_____ (0-3) Technical Presenting Selective LINK ***(Select courses COULD satisfy Oral Communication for core)***
_____ (3-4) Laboratory Science I Selective LINK ***(satisfies Science Selective for core)***
_____ (3-4) Laboratory Science II Selective LINK ***(satisfies Science Selective for core)***
_____ (6) General Education Selective LINK
_____ (3) Great Issues Selective LINK

Electives (5-19 credits)

_____ ( ) _____ _____ ( ) _____ _____ ( ) _____ _____ ( ) _____
_____ ( ) _____ _____ ( ) _____ _____ ( ) _____ _____ ( ) _____

University Core Requirements LINK

Human Cultures Humanities	☐ _____	*Science, Technology & Society Selective*	☐ _____
Human Cultures Behavioral/Social Science	☐ _____	*Written Communication*	☐ _____
Information Literacy	☐ _____	*Oral Communication*	☐ _____
Science Selective	☐ _____	*Quantitative Reasoning*	☐ _____
Science Selective	☐ _____		

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The student is ultimately responsible for knowing and completing all degree requirements.

Degree Works is knowledge source for specific requirements and completion

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Mathematics Education

http://www.science.purdue.edu/Current_Students/majors/index.html

Suggested Arrangement of Courses:

Credits	**Fall 1st Year**	**Prerequisite**	Credits	**Spring 1st Year**	**Prerequisite**
4-5	Calculus I Selective	ALEKS 85	4-5	Calculus II Selective	Calculus I
3-4	ENGL 10600/10800		4	CS 17700	Calculus I
3-4	Language I Selective		3-4	Language II Selective	Language 10100
1	Free Elective MA 10800		1	Free Elective	
3	EDCI 20500		3	EDCI 28500	
1	Free Elective				
15-18			**15-17**		

Credits	**Fall 2nd Year**	**Prerequisite**	Credits	**Spring 2nd Year**	**Prerequisite**
4-5	Calculus III Selective	Calculus II	3	MA 37500	Calculus III
3	MA 46000	Calculus II	3	STAT 31100	Calculus II
3-4	Laboratory Science Selective I		3-4	Laboratory Science Selective II	Lab Sci Selective I
3	EDCI 27000		3	COM 21700	
3	Free Elective		3	Free Elective	
16-18			**15-16**		

Credits	**Fall 3rd Year**	**Prerequisite**	Credits	**Spring 3rd Year**	**Prerequisite**
3	MA 30100	Calculus II	3	STAT 3500	Calculus II
3	MA 35100	Calculus III	4	MA 36600	Calculus III; co-req or pre MA 35100
3	EDPS 23500		3	Great Issues Selective	Jr/Sr Standing; may require COM or ENGL
3	EDPS 26500		3	EDST 20000	
4	Free Elective		3	General Education Selective I	
16			**16**		

Credits	**Fall 4th Year**	**Prerequisite**	Credits	**Spring 4th Year**	**Prerequisite**
3	MA 45300 or MA 45000	MA 35100	2	EDCI 42600	Pass GATE B
3	MA Selective	Varies by Class	10	EDCI 49800	Pass GATE B
3	General Education Selective II				
3	EDCI 42500	GATE A			
3	Free Elective				
15			**12**		

Identified as a critical course. Student should earn minimum of a B- see advisor for further details.

Students must earn a 2.5 average in MATH/STAT/CS courses required for major.

120 semester credits required for Bachelor of Science degree.

2.5 Graduation GPA required for Bachelor of Science degree.

*For Licensing – Students must pass GATE C

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