

**Departmental/Program Major Courses (95-115 credits)**

**Required Major Courses (44-47 credits):** Average GPA in courses below [higher of grade between STAT 35000 and MA Selective is used] 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 (*satisfies Quantitative Reasoning for core*)
- \_\_\_\_\_ (4-5) Calculus III Selective – Select from MA 26100, MA 27101 (*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 (Fall Only)
- \_\_\_\_\_ (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). Suggested courses can be found at [LINK](#) or MA 34100/44000, 35300, 36200/44200, 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*)
- \_\_\_\_\_ (1) EDST 20010 Educational Policies and Laws
- \_\_\_\_\_ (2) EDPS 32700 Assessment Literacy
- \_\_\_\_\_ (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 (18-35 credits)**

- \_\_\_\_\_ Within Major Calculus I Selective – Select from MA 16100, MA 16500 (*satisfies Quantitative Reasoning for core*)
- \_\_\_\_\_ Within Major Calculus II Selective – Select from MA 16200, MA 16600 (*satisfies Quantitative Reasoning for core*)
- \_\_\_\_\_ (3-4) ENGL 10600 or ENGL 10800 - (*satisfies Written Communication and Information Literacy for core*)
- \_\_\_\_\_ (0-4) Language I Selective – [LINK](#)
- \_\_\_\_\_ (0-4) Language II Selective – [LINK](#)
- \_\_\_\_\_ Within Ed program Language and Culture III Selective – [LINK](#) (*Select courses COULD satisfy Human Cultures Humanities for core*)
- \_\_\_\_\_ (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*)
- \_\_\_\_\_ Within Ed program General Education I Selective [LINK](#) (*Select courses COULD satisfy Human Culture Behavioral/Social Science for core*)
- \_\_\_\_\_ (3) General Education II Selective [LINK](#) (*Select courses COULD satisfy Human Culture Behavioral/Social Science for core*)
- \_\_\_\_\_ (3) General Education III Selective [LINK](#) (*Select courses COULD satisfy Human Culture Behavioral/Social Science for core*)
- \_\_\_\_\_ Within Major STAT 35000 Introduction To Statistics
- \_\_\_\_\_ Within Major Computing Selective [LINK](#)
- \_\_\_\_\_ Within Ed program Teambuilding Experience [LINK](#)
- \_\_\_\_\_ Within Ed program Multidisciplinary Experience [LINK](#) (*Select courses COULD satisfy Science, Technology, and Society Selective for core*)
- \_\_\_\_\_ (3) Great Issues Selective [LINK](#)

**Electives (5-25 credits)**

\_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( )

**University Core Requirements [LINK](#)**

Human Cultures Humanities	<input type="checkbox"/>	_____	Science, Technology & Society Selective	<input type="checkbox"/>	_____
Human Cultures Behavioral/Social Science	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	_____	Oral Communication	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____			


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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](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 Programming With Multimedia Objects	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 Exploring Teaching As A Career		3	EDCI 28500 Multiculturalism And Education	
1	Free Elective				
<b>15-18</b>			<b>15-17</b>		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
4-5	Calculus III Selective	Calculus II	3	MA 37500 Introduction To Discrete Mathematics	Calculus III
3	MA 46000 Geometry	Calculus II	3	STAT 31100 Introductory Probability	Calculus II
3-4	Laboratory Science I Selective		3-4	Laboratory Science II Selective	Lab Sci Selective I
3	EDCI 27000 Introduction To Educational Technology And Computing		3	COM 21700	
3	Free Elective		3	Free Elective	
<b>16-18</b>			<b>15-16</b>		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	MA 30100 An Introduction To Proof Through Real Analysis	Calculus II	3	STAT 35000 Introduction To Statistics	Calculus II
3	MA 35100 Elementary Linear Algebra	Calculus III	4	MA 36600 Ordinary Differential Equations	Calculus III; co-req or pre MA 35100
3	EDPS 23500 Learning And Motivation		3	Great Issues Selective	Jr/Sr Standing; may require COM or ENGL
3	EDPS 26500 The Inclusive Classroom		2	EDPS 32700 Assessment Literacy	EDPS 23500
1	EDST 20010: Educational Policies and Law		3	General Education Selective I	
3	Free Elective		1	EDPS 43010 Secondary Classroom Mgmt.	
<b>16</b>			<b>16</b>		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	MA 45300 or MA 45000	MA 35100	2	EDCI 42600 Teaching Mathematics In The Middle And Junior High School	Pass GATE B
3	MA Selective	Varies by Class	10	EDCI 49800 Supervised Teaching	Pass GATE B
3	General Education Selective II				
3	EDCI 42500 Teaching of Mathematics in Secondary Schools	EDCI 20500, 28500 and EDPS 23500, 26500 and GATE A			
3	Free Elective/ Science, Technology & Society Selective Course				
<b>15</b>			<b>12</b>		

 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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