

# B.S. IN MATHEMATICS AND EDUCATION WITH ENDORSEMENT IN ELEMENTARY EDUCATION (MA.EDE.BS)

Code	Title	Credits
<b>Major Requirements/Mathematics (43 credits)</b>		
<i>(Satisfies Mathematics in General Education)</i>		
MA-120	Introduction to Mathematical Reasoning	4
MA-125	Calculus with Analytic Geometry I	4
MA-126	Calculus with Analytic Geometry II	4
MA-220	Probability and Statistics I	3
MA-221	Linear Algebra	3
MA-225	Calculus with Analytic Geometry III	4
MA-314	Number Theory	3
<i>(Satisfies Reasoned Oral Discourse (RD) in General Education)</i>		
MA-317	Geometry	3
MA-325	History of Mathematics	3
<i>(Satisfies Global Understanding (GU) in General Education)</i>		
MA-410	Modern Algebra	3
MA-415	Real Analysis	3
Select 6 credits from Mathematics (MA) at the 300 or 400 level or above		
<b>Math Interdisciplinary Requirements (4 credits)</b>		
MA-237	Programming and Technology in Mathematics	4
<i>(Satisfies Technological Literacy (TL) in General Education)</i>		
<b>Major Requirements/Education (42 credits) <sup>1</sup></b>		
ED-250	Psychological and Philosophical Foundations of Education	3
EDS-330	Foundations of Special Education: Child & Adolescent Development and Transition to Adulthood	3
EDS-336	Classroom Management	3
ED-320	Teaching English Language Learners in Mainstream Classroom	3
EDL-326	Literacy Instruction in P-6 Educational Settings I	3
EDL-327	Literacy Instruction in K-6 Educational Settings II	3
ED-360	Methods of Teaching Elementary Mathematics	3
ED-361	Methods of Teaching Science for Elementary School	3
EDS-337	Special Education Strategies in P-6 Social Studies and Content Instruction	3
EDS-338	Assessment Approaches, P-12	3

EDS-350	Individualizing Curricula and Systematic Instruction for Special Education	3
ED-416 & 416S	Clinical Practice and Clinical Practice Seminar <sup>2</sup>	9
<b>Free Electives (0 credits) <sup>3</sup></b>		
There are no free electives. <sup>3</sup>		0
<b>General Education Requirements (33 credits) <sup>4</sup></b>		
Complete 33 credits as outlined on the General Education table. <sup>4</sup>		33
<b>Total Credits</b>		<b>122</b>

- 1  
*Minimum grade of "C" required for Education courses.*
- 2  
*Students must complete the appropriate test requirement(s) with a passing score PRIOR to Student Teaching.*
- 3  
*Please consult with your advisor regarding the required number of free electives that must be completed.*
- 4  
*The General Education curriculum requires the completion of 45 credits. However, students may be able to share credits from within their major or interdisciplinary requirements. Please consult with your advisor to determine which General Education (<http://catalog.monmouth.edu/undergraduate-catalog/academic-programs-support-services-regulations/general-education-requirements/>) courses must be completed.*

## Additional Endorsements Available

- MID-MA - Middle School Mathematics
- ESL - English as a Second Language - Elementary
- P-3 Early Childhood Endorsement

## Notes

- 54 credits must be completed at the 200 level or higher.
- Education majors are required to have an overall GPA of 3.00 for State Certification
- By state regulation, all Education majors seeking content area endorsement must complete 30 content credits (12+ credits at the 300+ level).

## Sequence Chart

First Year			
Fall	Credits	Spring	Credits
EN-101 College Composition I	3	EN-102 College Composition II	3
MA-120 Introduction to Mathematical Reasoning (Gen*Ed Mathematics)	4	MA-126 Calculus with Analytic Geometry II	4
MA-125 Calculus with Analytic Geometry I	4	ED-250 Psychological and Philosophical Foundations of Education	3
Gen*Ed Historical Perspectives (HS.SV)	3	Gen*Ed Social Science Survey (SS.SV)	3
Gen*Ed Aesthetics (AT) AR, DA, MU, TH	3	FO-xxx Gen*Ed World Language	3
<b>Semester Credits</b>	<b>17</b>	<b>Semester Credits</b>	<b>16</b>

**Second Year**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
MA-221 Linear Algebra		3 MA-220 Probability and Statistics I	3
MA-237 Programming and Technology in Mathematics (General Education Technological Literacy (TL))		4 MA-225 Calculus with Analytic Geometry III	4
ED-320 Teaching English Language Learners in Mainstream Classroom (Gen*Ed Reasoned Oral Discourse (RD) and Writing Intensive (WT))		3 EDL-326 Literacy Instruction in P-6 Educational Settings I	3
Gen*Ed Natural Science (NS) BY, CE, PH, GL, SC		3 EDS-330 Foundations of Special Education: Child & Adolescent Development and Transition to Adulthood (General Education Writing Intensive (WT))	3
General Education Literature (LIT)		3 BY, CE, GL, PH, SC General Education Natural Science (NS)	3
<b>Semester Credits</b>	<b>16</b>	<b>Semester Credits</b>	<b>16</b>

**Third Year**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
ED-361 Methods of Teaching Science for Elementary School		3 MA-317 Geometry	3
EDS-336 Classroom Management		3 MA-410 Modern Algebra	3
MA-314 Number Theory		3 EDS-338 Assessment Approaches, P-12	3
MA-300+ Math Elective		3 EDS-350 Individualizing Curricula and Systematic Instruction for Special Education	3
Gen*Ed Historical Perspectives (HS.SV) or Social Science Survey (SS.SV)		3 MA-300+ Math Elective	3
<b>Semester Credits</b>	<b>15</b>	<b>Semester Credits</b>	<b>15</b>

**Fourth Year**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
MA-415 Real Analysis		3 MA-325 History of Mathematics (Gen*ED Global Understanding (GU) and Writing Intensive (WT))	3
EDL-327 Literacy Instruction in K-6 Educational Settings II (General Education Writing Intensive (WT))		3 ED-416 Clinical Practice (Gen*Ed Experiential Education (ExEd))	8
ED-360 Methods of Teaching Elementary Mathematics		3 ED-416S Clinical Practice Seminar	1
EDS-337 Special Education Strategies in P-6 Social Studies and Content Instruction		3	
PR-4xx Gen*Ed Interdisciplinary Perspectives (ISP)		3	
<b>Semester Credits</b>	<b>15</b>	<b>Semester Credits</b>	<b>12</b>

**Total Credits 122**