

MONMOUTH UNIVERSITY

B.S. in Mathematics and Education with Endorsement in Elementary Education			
MATHEMATICS MAJOR REQUIREMENTS: 43 Credits		Credits	
2 courses from among:	MA120: Introduction to Mathematical Reasoning	4.0	
	MA125: Calculus with Analytic Geometry I	4.0	
	MA126: Calculus with Analytic Geometry II	4.0	
	MA211: Differential Equations	3.0	
	MA221: Linear Algebra	3.0	
	MA225: Calculus with Analytic Geometry III	4.0	
	MA314: Number Theory	3.0	
	MA319: Probability and Statistics I	3.0	
	MA320: Probability and Statistics II	3.0	
	MA410: Modern Algebra	3.0	
	MA415: Real Analysis	3.0	
	or MA317: Geometry		
	or MA411: Abstract Algebra	3.0	
	or MA413: Complex Analysis	3.0	
or MA419: Introduction to Math Modeling	3.0		
MA LVL1: Gateway Exam 1	0.0		
MA LVL2: Gateway Exam 2	0.0		
MA LVL3: Gateway Exam 3	0.0		
EDUCATION MAJOR REQUIREMENTS: 30 Credits (a)		Credits	
9 credits as follows:	ED250: Foundations of Teaching & Learning	3.0	
	EDL326: Literacy Instructions in K-5 Educational Settings I	3.0	
	EDL327: Literacy Instruction in K-5 Educational Settings II	3.0	
	EDL327N: NCATE Assessment	0.0	
	ED320: Teaching Students with Diverse Needs	3.0	
	ED360: Methods of Teaching Elementary Math	3.0	
	ED360N: NCATE Assessment	0.0	
	ED361: Methods of Teaching Science for Elem. School	3.0	
	ED361N: NCATE Assessment	0.0	
	ED362: Teaching Elementary Social Studies	3.0	
	ED362N: NCATE Assessment	0.0	
	ED-PRAXIS: Education Praxis II • PRAXIS - 10014	0.0	
	OR ED416: Student Teaching (8 credits) AND ED416S: Seminar in Student Teaching (1 Credit)	9.0	
	OR ED417: Supervised Student Teaching (8 credits) AND ED417S: Seminar in Supervised Student Teaching (1 Credit)		
	MATHEMATICS OUTSIDE THE MAJOR REQUIREMENTS: 11-14 Credits		Credits
		CS175: Introduction to Computer Science I	3.0 - 4.0
		or MA131L-133L: Math Lab I, II, III	
		and either	
8 credits as follows:			
CE111: General Chemistry I		3.0	
CE111L: General Chemistry I Lab		1.0	
CE112: General Chemistry II		3.0	
CE112L: General Chemistry II Lab		1.0	
or			
10 credits as follows:			
PH211: General Physics with Calculus I	4.0		
PH211L: General Physics with Calculus I Lab	1.0		
PH212: General Physics with Calculus II	4.0		
PH212L: General Physics with Calculus II Lab	1.0		
EDUCATION OUTSIDE THE MAJOR REQUIREMENTS: 9-12 Credits		Credits	
	PY103: Introduction to Psychology	3.0	
	PY201: Educational Psychology	3.0	
	PY206: Child & Adolescent Development	3.0	
	MA317: Geometry (<i>May be fulfilled in major requirements</i>)	0.0-3.0	
FREE ELECTIVES: 2-4 Credits		Credits	
		2.0-4.0	

(a) Minimum grade of "C" required for all Education Courses.

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GENERAL EDUCATION REQUIREMENTS: 33 Credits		Credits
English	EN101: College English I	3.0
	EN102: College English II	3.0
Literature	EN201: Literature I	3.0
	EN202: Literature II	3.0
History	HS101: Western Civilization In World Perspective I	3.0
	HS102: Western Civilization In World Perspective II	3.0
Information Technology	IT102: Information Technology for Scientists	3.0
Critical Discourse	HU201: Critical Discourse (waived)	0.0
Science	Fulfilled in Requirements Outside the Major	0.0
Mathematics	Fulfilled in Major Requirements	0.0
Social Science (partially fulfilled in Outside the Major Requirements)	Choose one course from among: any 100-level course in AN, GO, PS, SO; BE201, BE202, GS225	3.0
Aesthetics	AR101: Art Appreciation or MU101: Music Appreciation or TH101: Theater Appreciation or DA101: Dance Appreciation	3.0
Cross Cultural	One course chosen from the set of approved courses or 3 credits in a foreign language	3.0
Perspectives	PRxxx	3.0
Experiential Education	EX001	0.0
Demonstration of Writing Proficiency	WP001	0.0
Writing Intensive Requirement	Two Mathematics (MA) courses designated as course type WT	0.0
		0.0
	Two Education (ED, EDL, EDS) courses designated as course type WT	0.0
TOTAL CREDITS FOR B.S. IN MATHEMATICS AND EDUCATION WITH ENDORSEMENT IN ELEMENTARY EDUCATION = 128.0-132.0		
ADDITIONAL ENDORSEMENTS AVAILABLE: (Please review Endorsement Charts for Requirements) • TSD - Teacher of Students with Disabilities - Elementary (12 credits) K12.TSD.09 • ESL - English as a Second Language - Elementary (12 credits) ELE.ESL.09 • MID-MA - Middle School Mathematics (6 credits) MID.MA.09 • P-3 Early Childhood Endorsement (13 credits) ELE.P3.09 • Teacher of Supplemental Instruction in Reading/Mathematics K-8 (3 credits) ELE.READ.MATH.09		
NOTES:		
* 58 credits must be completed at the 200 level or higher.		
** Education majors are required to have an overall GPA of 2.75 for State Certification.		
***By state regulation, all Education Majors seeking content area endorsement must complete 12+ credits at the 300+ level in the content major.		