

MONMOUTH UNIVERSITY

Curriculum Chart 2009-2010

Office of Registration and Records
West Long Branch, NJ 07764 - 1898

MA07EDS09GE09

MONMOUTH UNIVERSITY CURRICULUM CHART

B.S. in Mathematics and Education with Endorsement in Secondary Education in Mathematics		
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
	MA411: Abstract Algebra	
	or MA317: Geometry	3.0
	or MA413: Complex Analysis	
	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: 24 Credits (a)		Credits
9 credits as follows:	ED250: Foundations of Teaching & Learning	3.0
	ED201: Education Psychology	3.0
	EDL206: Child & Adolescent Development	3.0
	ED319: Literacy Across the Secondary Curriculum	3.0
	ED319N: NCATE Assessment	0.0
	ED320: Teaching Students with Diverse Needs	3.0
	ED-PRAXIS: Education Praxis II • PRAXIS - 10061	0.0
	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 Student Teaching (1 Credit)	
EDUCATION METHODS REQUIREMENTS: 6 Credits (a)		Credits
	ED365: Mathematics for the Secondary Teach. Part I	3.0
	or ED375: Secondary Teaching Methods Part I	
	ED366: Mathematics for the Secondary Teach. Part II	3.0
	or ED376: Secondary Teaching Methods Part II	
MATHEMATICS OUTSIDE OF 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 OF THE MAJOR REQUIREMENTS: 3-6 Credits		Credits
	PY103: Introduction to Psychology	3.0
	MA317: Geometry (<i>May be fulfilled in major requirements</i>)	0-3.0
FREE ELECTIVES: 5-8 Credits		Credits
		5.-8.0

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

**B.S. in Mathematics and Education
with Endorsement in Secondary Education in Mathematics**

GENERAL EDUCATION REQUIREMENTS: 33 Credits **Credits**

English	EN101: College English I EN102: College English II	3.0 3.0
Literature	EN201: Literature I EN202: Literature II	3.0 3.0
History	HS101: Western Civilization In World Perspective I HS102: Western Civilization In World Perspective II	3.0 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 Two Education (ED, EDL, EDS) courses designated as course type WT	0.0 0.0 0.0

**TOTAL CREDITS FOR B.S. IN MATHEMATICS AND EDUCATION WITH ENDORSEMENTS IN SECONDARY
EDUCATION IN MATHEMATICS = 128.0 - 131.0**

ADDITIONAL ENDORSEMENTS AVAILABLE:
(Please review Endorsement Charts for Requirements)

- TSD - Teacher of Students with Disabilities - Secondary (15 credits)
- ESL - English as a Second Language - Secondary (12 credits)

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.