MONMOUTH UNIVERSITY CURRICULUM CHART

Bachelor of Science in Mathematics

MAJOR REQUIREMENTS/MATHEMATICS: 43 Credits		Credits
	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
	Take 6 Credits from the Following Courses:	6.0
	MA317: Geometry	
or	MA411: Abstract Algebra	
or	MA413: Complex Analysis	
or	MA419: Introduction to Math Modeling	
	MA LVL1: Gateway Exam 1	0.0
	MA LVL2: Gateway Exam 2	0.0
	MA LVL3: Gateway Exam 3	0.0

REQUIREMENTS OUTSIDE MAJOR: 11 to 14 Credits		Credits
	CS175: Introduction to Computer Science I	3.0 - 4.0
or	MA237: Programming and Technology in Mathematics	
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
OR		
8 credits as follows:	BY109: Introduction to Biodiversity and Evolution	4.0
	BY110: Introduction to Cell and Molecular Biology	4.0

FREE ELECTIVES: 35 to 38 Credits	Credits
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GENERAL EDUCATION REQUIREMENTS: 33 to 36 Credits		Credits
First Year Seminar	FY-101: First Year Seminar	3.0
Reading and Writing	EN101: College Composition I	3.0
	EN102: College Composition II	3.0
Mathematics	Fulfilled in Major Requirements with required MA courses	0.0
Natural Sciences	Fulfilled in Outside Major Requirements with BY, CE or PH courses	0.0
Literature	3 Credits from courses designated with Course*Type: LIT	3.0
Aesthetics and Creativity	3 Credits from Art, Music, Theatre, or Dance	3.0
Technological Literacy	3 Credits from courses designated with Course*Type: TL*	0.0 - 3.0
	**(May be fulfilled in Major requirements with MA237)*	
Reasoned Oral Discourse	Fulfilled in Major Requirements with MA314	0.0
Historical Perspective	3 Credits from courses designated with Course*Type: HS.SV	3.0
Social Science	3 Credits from courses designated with Course*Type: SS.SV	3.0
Historical Perspective/Social Sciences	3 Credits from courses designated with Course*Type: HS.SV	3.0
	or 3 Credits from courses designated with Course*Type: SS.SV	
Interdisciplinary Perspectives	3 Credits from courses designated with Course*Type: ISP	3.0
Cultural Diversity and Global Understanding or Foreign Language	3 Credits from courses designated with Course*Type: CD	6.0
	and 3 Credits from courses designated with Course*Type: GU	
	or 6 Credits from the SAME foreign language	
Experiential Education	One course designated with Course*Type: EX	0.0
Writing Intensive	Two courses from Mathematics (MA) designated	0.0
	with Course*Type: WT	0.0

Minimum Credits for Bachelor of Science in Mathematics = 128.0

NOTES:

*** 58 credits must be completed at the 200 level or higher.**