MONMOUTH UNIVERSITY CURRICULUM CHART

Bachelor of Science in Mathematics with a Concentration in Statistics

MAJOR REQUIREMENTS/MATHEMATICS: 49 Credits		Credits
	MA-120: Introduction to Mathematical Reasoning	4.0
	MA-125: Calculus with Analytic Geometry I	4.0
	MA-126: Calculus with Analytic Geometry II	4.0
	MA-311: Differential Equations	3.0
	MA-221: Linear Algebra	3.0
	MA-225: Calculus with Analytic Geometry III	4.0
	MA-314: Number Theory	3.0
OR	MA-317: Geometry	
OR	MA-318: Combinatorics and Graph Theory	
	MA-220: Probability and Statistics I	3.0
	MA-320: Probability and Statistics II	3.0
	MA-350: Computation and Statistics	3.0
	MA-415: Real Analysis	3.0
	MA-419: Introduction to Mathematical Modeling	3.0
	MA-421: Design of Experiments and ANOVA	3.0
	MA-440: Regression and Time Series Analysis	3.0
	MA-460: Multivariate and Categorical Statistics	3.0

INTERDISCIPLINARY REQUIREMENTS: 8 to 10 Credits		Credits
Take either		
8 credits as follows:	CE-111: General Chemistry I	3.0
	CE-111L: General Chemistry I Lab	1.0
	CE-112: General Chemistry II	3.0
	CE-112L: General Chemistry II Lab	1.0
OR		
10 credits as follows:	PH-211: General Physics with Calculus I	4.0
	PH-211L: General Physics with Calculus I Lab	1.0
	PH-212: General Physics with Calculus II	4.0
	PH-212L: General Physics with Calculus II Lab	1.0
OR		
8 credits as follows:	BY-109: Introduction to Biodiversity and Evolution	4.0
	BY-110: Introduction to Cell and Molecular Biology	4.0

FREE ELECTIVES: 30 to 32 Credits	Credits
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GENERAL EDUCATION REQUIREMENTS: 36 to 39 Credits		Credits
First Year Seminar	FY-101: First Year Seminar	3.0
Reading and Writing	EN-101: College Composition I	3.0
	EN-102: College Composition II	3.0
Mathematics	Fulfilled in Major Requirements with required MA courses	0.0
Natural Sciences	Fulfilled in Interdisciplinary Requirements w/ 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	3.0
Reasoned Oral Discourse	3 Credits from courses designated with Course*Type: RD*	0.0 - 3.0
	**(May be fulfilled in Major requirements with MA-314)*	
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	Fulfilled in Major Requirements with MA-419	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 with a Concentration in Statistics = 128.0

NOTES:

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