MATHEMATICS, B.A.

The B.A. degree program in mathematics is a flexible curriculum designed to accommodate the widest possible range of career objectives. It is structured according to the traditional liberal arts approach to college education. The second semester of a foreign language is required.

Major in Mathematics, BA

Code		ours
Credits Required	for Major	
	true	
Minimum Reside	ency 50% of Major Courses	
	true	
Minimum GPA 2.	0 for Major	
	true	
REQUIRED MATE	HEMATICS COURSES	
Calculus I - Choo	se 1 of the following:	4-5
MATH 161	Calculus 1	
MATH 163H	Honors Calculus 1	
MATH 211	Calculus 2	4
MATH 310	Intro to Mathematical Proof	3
MATH 311	Calculus 3	2
MATH 322	Linear Algebra 1	4
MATH 345	Abstract Algebra 1	3
MATH 464	Real Analysis 1	3
REQUIRED COUF	RSES IF NO OPTION DECLARED	
Mathematic Stat following:	s I or Differential Equations - Choose 1 of the	3
MATH 335	Mathematical Statistics 1	
MATH 365	Ordinary Differential Equation	
Additional Requi	red Mathematics Course - Choose 1 of the following:	: 3
MATH 422	Linear Algebra 2	
MATH 435	Mathematical Statistics 2	
MATH 445	Abstract Algebra 2	
MATH 467	Partial Differential Equations	
Elective Mathem	atics Courses - Choose 12 hours from:	12
MATH 335	Mathematical Statistics 1	
MATH 354	Classical and Transformational Geometry	
MATH 365	Ordinary Differential Equation	
MATH 370	Operations Research	
MATH 372	Financial Mathematics I	
MATH 375	Numerical Analysis	
MATH 393	Number Theory	
MATH 395	Introduction Combinatorics	
MATH 422	Linear Algebra 2	
MATH 435	Mathematical Statistics 2	
MATH 445	Abstract Algebra 2	

Total Hours	43-44		
MATH 592	Graph Theory		
MATH 566	Complex Variables		
MATH 536	Statistical Methods 2		
MATH 535	Statistical Methods 1		
MATH 498	Independent Study		
Any 4@8 MATH course(s)			
MATH 483	Point-Set Topology		
MATH 472	Financial Mathematics II		
MATH 471	Mathematical Modeling		
MATH 467	Partial Differential Equations		
MATH 465	Real Analysis 2		
MATH 457	Elementary Differentl Geometry		

Req Related for Mathematics, BA

Code	Title	Hours
REQUIRED COUR	SES	
Intro. to Computir	ng I	4

ADDITIONAL REQUIRED RELATED COURSES

undefined - Choose 1 of the following options 1-2:

Option 1. A. College of Science and Technology Courses - Choose 2 classes totaling at least 6 hours from:

Introduction to Programming 1

Any BIOL course(s)

CSCI 161

Any CHEM course(s)

Any CSCI course(s)

Any ESCI course(s)

PHIL 312 Mathematical Logic

Any PHYS course(s)

Note: This requirement may not be satisfied with BIOL 100, BIOL 108H, BIOL 204, BIOL 205, BIOL 207, BIOL 208, BIOL 247, BIOL 257, any CHEM 101-104 course(s), CHEM 110, CHEM 188, CHEM 235, CSCI 101, CSCI 111, CSCI 121, ESCI 101, ESCI 102, ESCI 104, ESCI 105, ESCI 107, ESCI 110, PHYS 103, PHYS 117, PHYS 131, PHYS 132, PHYS 198, or PHYS 205.

Option 2. B. Three courses from a SINGLE department

If you select Option B. Three courses from a SINGLE department, your advisor must email a list of courses to degreeaudit@millersville.edu for them to fulfill this requirement.

FOREIGN LANGUAGE COMPETENCY

Language competency through the elementary level (102 or higher) is required. FORL 101 is needed only if necessary to progress to 102.

Total Hours 4