MILLERSVILLE UNIVERSITY

Student Name:		Student I.D.#						
DEGREE: MAJOR:	BSE MATH	MAJOR REQUIREMENTS FOR A BSE DEGREE IN MATHEMATICS						
OPTION:		Total credit hours required: 120.0 minimum						
	REQUIR	EMENTS AND POLICIES FOR THE BSE MATHEMATICS MAJOR						
1. 2.	New stude Offce of A Admission chairperso course mu course for Periodicall "Departme does not d	ission to the Major ints (freshmen and transfers) must be admitted to the Mathematics major by the dmissions upon admission to the University. into the Mathematics major from other departments is upon approval of the n of the Department of D I1. University requirements for st earn a grade of "C-" or better in that course before being admitted to the later which it is a prerequisite. y, a Mathematics major's progress will be reviewed in accordance with the nt Evaluation of Majors" policy stated in the University catalog. A student who emonstrate satisfactory progress will be notifed of the department's concern. Int notif cations may result in being terminated as a major in the department.						
1. 2. 3. D. Admi All studen Studies an in their ini requireme	Completion Any studer MATH 405 teaching, a MATH 161 Additionall ission to A its enrolled nd meet Pe tial Advance ents in order	 appletion of the Major b) of all University curricular requirements. b) ti in the BSE Mathematics program must earn a grade of "C-" or better in b) prior to student teaching. In order to receive a departmental approval for student c) a math major must attain at least a "C-" in each of the prerequisites for MATH 405: c) 211, 310, 311, 322, 333, 345, and 353 or 355. c) prior to student teaching, each student is subject to a departmental review. Advanced Professional Studies and Certif cation (Education Majors) In teacher preparation programs must be admitted to Advanced Professional Innsylvania State requirements and university requirements prior to being enrolled End Professional course. Students must meet additional Pennsylvania State It to be certified. A listing of Advanced Professional Studies courses and require- Each department office, the Field Services office, and the Field Services website.						
Note to the s be aware of		is form is provided as a guide. It is your responsibility to consult regularly with your advisor to a curriculum details which are not incorporated on this form.						

MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **BSE MATHEMATICS** Option: Major Field Requirements: **46.0- 50.0 credits** Other Requirements: **35.0 credits**

When applicable, up to six of the **REQUIRED RELATED** courses may be credited toward the Liberal Arts Core subject to normal distribution rules.

Course No.	Short Title	C.H.	Grade	Course N	0	Short Title	C.H.	Grade
	IATHEMATICS COURSES (30	Profes	siona	al Education Courses (27.0 cr	edits)			
MATH 161 C	alculus I*	4.0			044			
MATH 211 C	alculus II	4.0				Foundations Modern Education		
MATH 301 H	listory of Mathematics	3.0		EDEN	241	Psych Foundations of Teaching	g 3.0	
MATH 310 Ir	ntro Mathematical Proof	3.0			224	logues in Secondary Education	20	
MATH 311 C	alculus III	4.0		LEDSE	321	Issues in Secondary Education	3.0	
MATH 322 Li	inear Algebra I	4.0			240	Contant Area Literaau	2.0	
MATH 345 A	bstract Algebra I	3.0				Content Area Literacy Sec Students w/Disabilities	3.0	
				ISPED	340	Sec Students w/Disabilities	3.0	
MATH 353 S	urvey of Geometry	3.0			171	Differentiating Instruction	3.0	
OR						Student Teaching	9.0	
MATH 355 T	ransformational Geometry	3.0			401	Siddeni Teaching	9.0	
MATH 405 Te	5.0		REQUIRED RELATED COURSES (8.0 credits)					
MATH 464 R		3.0						
	sion, MATH 163 Honors Calcu		v be	CSCI		Intro to Programming I	4.0	
	e of MATH 161.		, , , , , , , , , , , , , , , , , , ,	CSCI	140	Discrete Structures	4.0	
EL FOT								
ELECT	IVE COURSES - No Declared (10.0-12.0 credits)	d Optio	n					
A. Statistics I	Requirements (4.0-6.0 credit	s)						
	Intro Probability & Statistics	4.0						
OR	······, ······, ·······							
	Mathematical Statistics I	3.0						
and								
	Mathematical Statistics II	3.0						
B Additional	Electives (6.0 credits)							
	Survey of Geometry	3.0						
	Transformational Geometry	3.0						
	Ord. Differential Equations	3.0						
	Operations Research	3.0						
	Numerical Analysis	3.0						
	Number Theory	3.0						
	Intro Combinatorics	3.0						
	Linear Algebra II	3.0						
	Abstract Algebra II	3.0						
	Elem. Differential Geometry	3.0						
	Real Analysis II	3.0						
	Partial Differential Equations	3.0						
	Mathematical Modeling	3.0						
	Financial Mathematics	3.0						
	Point - Set Topology	3.0						
	Topics in	0.0						
	Statistical Methods I	3.0						
	Statistical Methods II	3.0						
	Complex Variables	3.0 3.0						
	Graph Theory	3.0 3.0						
		5.0						
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