BACHELOR OF SCIENCE IN MATHEMATICS *Option in Mathematics Education* Major Requirements Worksheet 2012-2013 Catalog

Name:___

Student ID:_____

Note: This checklist is not intended to replace advising from the major department. Students should consult with the major advisor to determine the appropriate sequence of courses. This checklist is to inform students of major requirements and course prerequisites only. CSULB Enrollment Services prepares the Academic Requirements Report, which is the official graduation verification.

Grade	Course #	Course Title	Semester	Prerequisites
	MATH 122	Calculus I (4)		Appropriate MDPT placement or
				MATH 111* and 113* or MATH 117*
	MATH 123	Calculus II (4)		MATH 122*
	MATH 224	Calculus III (4)		MATH 123* or 222*
	MATH 233	Fundamental Concepts for Advanced		MATH 123* or 222*
		Mathematics (3)		
	MATH 247	Introduction to Linear Algebra (3)		MATH 123 or 222

Take ONE of the following courses:

ENGL 101	Composition (3) OR	ENGL 100
ENGL 300	Advanced Composition (3) OR	GE Foundation requirements and
		upper-division standing
ENGL 317	Technical Communication (3)	GE foundation requirements, upper-
		division standing, and a previous
		composition course**

Take ONE of the following sequences (choose 1 of the 3 boxes):

	PHYS 151	Mechanics and Heat (4)	MATH 122 (Pre/Corequisite)
	PHYS 152	Electricity and Magnetism (4)	PHYS 151; Pre/Corequisite: MATH 123
OR			
	PHIL 170	Critical Reasoning (3)	GE Foundation requirements
			Category A.1 (Written English)
	PHIL 270	Symbolic Logic I (3)	None
OR 8 ι	units of a Foreigr	h Language (must be the same foreign language)	

Upper Division (for upper-division advising, please see your major faculty advisor):

Take ALL of the following courses:

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MATH 310	History of Early Mathematics (3)	Pre/Corequisite A 200-level
		mathematics course
MATH 341	Number Theory (3)	MATH 233
MATH 355	College Geometry (3)	MATH 247
MATH/STAT	Probability and Statistics (3)	MATH 222 or 224
380		
STAT 381	Mathematical Statistics (3)	MATH 247, and MATH 380 or STAT 380
MATH 410	History of Modern Mathematics (3)	MATH 247, 310, and at least 3 of the
		following: MATH 233, 341, 355,
		361A, 380
MATH 444	Introduction to Abstract Algebra (3)	MATH 233 and 247, and at least one
		of MATH 341 or 347
MTED 301	Computer Applications in Mathematics for	1 year of HS geometry and 1 of
	Teachers (3)	MTED 110 or MATH 122

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	MTED 411	Topics and Issues in Secondary School	MATH 310, 341, 355, 380, 410, 444;
		Mathematics (3)	EDSS 300M or consent of the
			instructor
	EDSS 300M	Introduction to Teaching Mathematics (3)	Advanced sophomore or junior
			standing

Take ONE of the following courses:

	MATH 361A	Introduction to Mathematical Analysis I (3)	MATH 222 or 224, and MATH 233 or 247
	MATH 364A	Ordinary Differential Equations I (3)	MATH 222 or 224, and pre/Corequisite
			MATH 247

Take **3** additional upper-division units in Mathematics (*excluding*: MATH 303I, 370A, 370B, 409)

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