BACHELOR OF SCIENCE IN MATHEMATICS (IMPACTED)

Option in Applied Mathematics (Suboption II Application in Economics and Management)

Major Requirements Worksheet

2013-2014 Catalog

	2015 2011 Cutaing
Name:	<i>Student ID:</i>

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 (All prerequisite courses must have a "C" or better)
	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
	MATH 247	Introduction to Linear Algebra (3)		MATH 123
	CECS 174	Introduction to Programming and Problem Solving (3)		CECS 100 and MATH 113 (or equivalent)

Take ONE of the following

ENGL 10	1 Composition (3) OR	ENGL 100
ENGL 31	7 Technical Communication (3)	GE foundation requirements, upper-division standing, and a previous composition course*

Take ONE of the following groups (either ECON 100 AND 101, OR take just ECON 300)

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	ECON 100	Principles of Macroeconomics (3) AND		MATH 103 or higher and one GE Foundation
	ECON 101	O1 Principles of Microeconomics (3) OR		MATH 103 or higher
	ECON 300	Fundamentals of Economics (3)		GE Foundation requirements

Upper Division: (see major advisor for all upper-division advising). Take ALL of the following courses:

MATH 323	Introduction to Numerical Analysis (4)	MATH 224, and a course in computer
		programming
MATH 361A	Introduction to Mathematical Analysis I (3)	MATH 224, and MATH 233 or 247
MATH 361B	Introduction to Mathematical Analysis II (3)	MATH 361A
MATH 364A	Ordinary Differential Equations I (3)	MATH 224, and Pre/Corequisite
		MATH 247
MATH/STAT	Probability and Statistics (3)	MATH 224
380		
MATH 485	Mathematical Optimization(3)	MATH 247 and at least one of MATH
		323, 347 <i>or</i> 380
STAT 381	Mathematical Statistics (3)	MATH 247 and MATH 380 or STAT 380
STAT 482	Random Processes (3)	MATH 247 and MATH 380 or STAT 380

A minimum of **6 units** from the following: MATH 364B, 423, 463, 470, 473, 474, 479; STAT 410

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A minimum of **15 units** from **ONE** of the following groups (for the prerequisites, please see the catalog):

Group A	Group B
Take BOTH of the following courses:	Take BOTH of the following courses:
ECON 310 Microeconomic Theory (3) AND	ECON 333 Managerial Economics (3) AND
ECON 311 Macroeconomic Theory (3)	SCM 410 Logistics Management (3)
Take 9 units selected from the following: ECON 333, 410, 411, 420, 485, 486	Take 9 units selected from the following: SCM 411, 414; MGMT 412, 413, 426

*See catalog for more detail Updated 05/09/13 AZ