BACHELOR OF SCIENCE IN MATHEMATICS (IMPACTED)
Option in Applied Mathematics (*Suboption II: Application in Economics and Management*)
Major Requirements Worksheet
2016-2017 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. ***Pre-Mathematics majors must complete their GE Foundation courses, and the highlighted areas below all with a "C" or better and a cumulative GPA of 2.5, by 60 units to be considered for the major.***

Many prerequisites require a" C" or better, please check the catalog for grade requirements.

Semester	Grade	Course #	Course Title	Prerequisites
		MATH 122	Calculus I (4)	Appropriate MDPT placement* or MATH 111 *and* 113
		MATH 123	Calculus II (4)	MATH 122
		MATH 224	Calculus III (4)	MATH 123
		MATH 247	Introduction to Linear Algebra (3)	MATH 123
		ENGL 317	Technical Communication (3)	GE Foundation requirements, upper-division standing, and a previous composition course*
		CECS 174	Introduction to Programming and Problem Solving (3)	MATH 113 (or equivalent)

**See catalog for more detail*

Choose ONE of the following groups:

Semester	Grade	Course #	Course Title	Prerequisites
		ECON 100	Principles of Macroeconomics (3) ***AND***	MATH 103 or higher and one GE Foundation course
		ECON 101	Principles of Microeconomics (3)	MATH 103 or higher

OR

Semester	Grade	Course #	Course Title	Prerequisites
		ECON 300	Fundamentals of Economics (3)	GE Foundation requirements

UPPER DIVISION COURSES (See major faculty advisor)

Take ALL of the following courses:

Semester	Grade	Course #	Course Title	Prerequisites
		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 380	Probability and Statistics (3)	MATH 224
		STAT 381	Mathematical Statistics (3)	MATH 247 *and* MATH 380

Choose a *minimum* of 12 UNITS from the following: MATH 364B, 423, 463, 470, 473, 474, 479, 485; STAT 410, 482, including at least one of MATH 474 or MATH 485:

Semester	Grade	Course #	Course Title	Prerequisites

Choose a *minimum* of 15 UNITS from ONE of the following groups:**

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

***The following upper-division units are excluded: MATH 303, 309, 370A, 370B, 409*

Semester	Grade	Course #	Course Title	Prerequisites