

# BACHELOR OF SCIENCE IN MATHEMATICS (IMPACTED)

## Option in Statistics Major Requirements Worksheet 2013-2014 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 (All prerequisite courses must have a "C" or better)
-------	----------	--------------	----------	--

### Take ALL of the following courses

	<b>MATH 122</b>	<b>Calculus I (4)</b>		Appropriate MDPT placement or MATH 111* and 113* or MATH 117*
	<b>MATH 123</b>	<b>Calculus II (4)</b>		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 101	Composition (3) OR		ENGL 100
	ENGL 317	Technical Communication (3)		GE foundation requirements, upper-division standing, and a previous composition course, i.e. ENGL 100, 101, 102, 300, or equivalents**

**Upper Division:** A minimum of **34 units** of MATH or STAT courses to include the following (but not MATH 303, 370A or 370B):

### Take ALL of the following courses:

	MATH 323	Introduction to Numerical Analysis (4)		MATH 224, and a course in computer programing
	MATH 361A	Introduction to Mathematical Analysis I (3)		MATH 224, and MATH 233 or 247
	STAT 380	Probability and Statistics (3)		MATH 224
	STAT 381	Mathematical Statistics (3)		MATH 247, and MATH 380 or STAT 380
	STAT 410	Regression Analysis (3)		STAT 381
	STAT 450	Multivariate Statistical Analysis (3)		STAT 381; Pre/Corequisite STAT 410
	STAT 475	Data Analysis with SAS (3)		STAT 381 or consent of the instructor

Three units of the elective upper-division MATH or STAT courses may be replaced by MATH 233

The remaining **12 units** (to meet the 34 unit requirement):


\*Requires a "C" or better

\*\* See Catalog for more detail