

BACHELOR OF SCIENCE IN MATHEMATICS

Option in Statistics

Major Requirements Worksheet

2018-2019 Catalog

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; the [CSULB Course Catalog](#) takes precedence in any conflict. CSULB Enrollment Services prepares the Academic Requirements Report, which is the official graduation verification.

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

Take ALL of the following courses:

Semester	Grade	Course #	Course Title	Prerequisites
		CECS 174	Introduction to Programming and Problem Solving (3)	CECS 100 and MATH 113
		ENGL 317	Technical Communication (3)	GE foundation requirements, upper-division standing, and a previous composition course
		MATH 122	Calculus I (4)	Appropriate algebra/calculus placement; or MATH 111 and either MATH 112B or 113
		MATH 123	Calculus II (4)	MATH 122
		MATH 224	Calculus III (4)	MATH 123 or 222
		MATH 247	Introduction to Linear Algebra (3)	MATH 123

UPPER DIVISION COURSES (see major faculty advisor)

Take a minimum of 34 units of MATH or STAT courses to include the following:*

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; MATH 233 or 247
		MATH 380	Probability and Statistics (3)	MATH 224
		STAT 381	Mathematical Statistics (3)	MATH 247 and 380
		STAT 410	Regression Analysis (3)	STAT 381
		STAT 450	Multivariate Statistical Analysis (3)	STAT 381. <i>Pre/Corequisite:</i> STAT 410
		STAT 475	Data Analysis with SAS (3)	STAT 381 or instructor consent

Semester	Grade	Course #	Course Title	Prerequisites

*Excludes: MATH 303, 309, 370A, 370B, 409. Three units of the elective upper-division MATH or STAT courses may be replaced by MATH 233.