



BACHELOR OF SCIENCE IN MATHEMATICS
OPTION IN STATISTICS
FOUR YEAR DEGREE WORKSHEET
2019-2020 Catalog

This degree worksheet is intended to help you develop a balanced course schedule while completing your degree within 4 years. The same sequence of courses (with fewer courses each semester) is also recommended for students completing their degree in 5 or 6 years. This worksheet is not intended to replace academic advising with your assigned advisor. Students should consult with their assigned advisor to determine the appropriate sequence of required courses and electives based on their academic goals. Please note that your Major Specific Requirements (MSRs) are **bolded** in the document and are also listed as an “MSR” in the notes column. These courses must be completed in order to declare your major. **All students must have a GPA of 2.5 or higher in the STEM MSR suite.**

Pre-Mathematics first-time freshmen must complete MATH 122 and MATH 123 with a cumulative GPA of 2.5 or higher.

CSULB Enrollment Services prepares the Academic Requirements Report, which is the official graduation verification.

Year 1

Semester	Course #	Course Title (Units)	Prerequisites	Notes
1	MATH 122 (area B4)	Calculus I (4)	Appropriate placement, MATH 111 and either 112B or 113	MSR
	GE (area A2)	Written Communication (3)		MSR
	GE (area C,D,E)	Other Explorations (3)		
	GE (area C,D,E)	Other Explorations (3)		
	NSCI 190A	Experience Success Program 1 (1)		Fall only
2	MATH 123 (area B4)	Calculus II (4)	MATH 122	MSR
	GE (area A1)	Oral Communication (3)		MSR
	GE (area A3)	Critical Thinking (3)		MSR
	GE (area C,D,E)	Other Explorations (3)		
	Elective	Elective Requirement (3)		

Year 2

Semester	Course #	Course Title (Units)	Prerequisites	Notes
3	MATH 224	Calculus III (4)	MATH 123	
	CECS 174	Intro Programming and Problems Solving (3)	CECS 100 (A3), MATH 113, 122, or 123	
	GE (area C,D,E)	Other Explorations (3)		
	GE (area C,D,E)	Other Explorations (3)		
	Elective	Elective (3)		
4	MATH 247	Introduction to Linear Algebra (3)	MATH 123	
	MATH 380	Probability and Statistics (3)	MATH 224	
	GE (area C,D,E)	Other Explorations (3)		
	GE (area B2)	Life Science (3-4)		B2 or B1 with lab
	Elective	Elective (3)		

Year 3

Semester	Course #	Course Title (Units)	Prerequisites	Notes
5	MATH 381	Mathematical Statistics (3)	MATH 247 and 380	
	Upper Division Elective	Math Statistics (3)		
	ENGL 317	Technical Communication (3)	GE Foundation	
	GE (area B1)	Physical Science (3-4)		B2 or B1 with lab
	Elective	Elective (3)		
6	MATH 361A	Intro. to Mathematical Analysis I (3)	MATH 224 and either 233 or 247	
	MATH 323	Intro. to Numerical Analysis (3)	MATH 224	
	Upper Division Elective	Math Statistics (3)		
	GE (area C,D,E)	Other Explorations (3)		
	Elective	Elective (3)		

Year 4

Semester	Course #	Course Title (Units)	Prerequisites	Notes
7	STAT 410	Regression Analysis (3)	STAT 381	
	STAT 475	Data Analysis with SAS (3)	STAT 381	
	Upper Division Elective	Math Statistics (3)		
	GE Upper Division (area B-UD, C-UD, D-UD)	Upper Division (3)	GE Foundation	
	Elective	Elective (3)		
8	STAT 450	Multivariate Statistical Analysis (3)	STAT 381	Spring only
	Upper Division Elective	Math Statistics (3)		
	GE Upper Division (area B-UD, C-UD, D-UD)	Upper Division (3)	GE Foundation	
	GE Upper Division (area B-UD, C-UD, D-UD)	Upper Division (3)	GE Foundation	
	Elective	Elective (2)		