



BACHELOR OF SCIENCE IN MATHEMATICS 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	
	PHYS 151	Mechanics and Heat (4)	MATH 122, 123, or 224	
	CECS 174	Intro Programming and Problems Solving (3)	CECS 100 (A3); MATH 113, 122, or 123	
	GE (area C,D,E)	Other Explorations (3)		
	Elective	Elective (1)		
4	MATH 247	Introduction to Linear Algebra (3)	MATH 123	
	MATH 233	Fundamental Concepts for Advanced Mathematics (3)	MATH 123	
	GE (area C,D,E)	Other Explorations (3)		
	GE (area C,D,E)	Other Explorations (3)		
	Elective	Elective (3)		

Year 3

Semester	Course #	Course Title (Units)	Prerequisites	Notes
5	MATH 364A	Ordinary Differential Equations (3)	MATH 224; <i>Pre/Corequisite</i> : MATH 247	
	MATH 380	Probability and Statistics (3)	MATH 224	
	MATH 341 OR MATH 347	Number Theory (3) OR Linear Algebra (3)	MATH 233 OR MATH 233 and 247	
	ENGL 317	Technical Communication (3)	GE Foundation	
	Elective	Elective (3)		
	6	MATH 361A	Introduction to Mathematical Analysis I (3)	MATH 224 and either 233 or 247
MATH 444		Introduction to Abstract Algebra (3)	MATH 233, 247, and either 341 or 347	
GE (area B2)		Life Science (3-4)		B2NL is okay
GE (area C,D,E)		Other Explorations (3)		
Elective		Elective (3)		

Year 4

Semester	Course #	Course Title (Units)	Prerequisites	Notes
7	MATH 361B	Intro. to Mathematical Analysis II (3)	MATH 361A	
	Elective	MATH Elective (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 (3)		
8	Elective	MATH Elective (3)		
	Elective	MATH Elective (3)		
	Elective	MATH Elective (3)		
	GE Upper Division (area B-UD, C-UD, D-UD)	Upper Division (3)	GE Foundation	
	Elective	Elective (3)		