

## BACHELOR OF SCIENCE IN MATHEMATICS OPTION IN MATHEMATICS EDUCATION FOUR YEAR DEGREE WORKSHEET 2017-2018 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.

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	Calculus I (4)	MATH 111 and 113	
	GE (area A1)	Written Communication (3)		
	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	Calculus II (4)	MATH 122	
	GE (area A2)	Oral Communication (3)		
	GE (area A3)	Critical Thinking (3)		
	GE (area C,D,E)	Other Explorations (3)		
	GE (area B1a)	Life Science (3-4)	<i>Corequisite:</i> GE (area B1a) Life Science Lab	B1a or B1b with lab

## Year 2

Semester	Course #	Course Title (Units)	Prerequisites	Notes
3	MATH 224	Calculus III (4)	MATH 123	
	MATH 233	Fundamental Concepts for Advanced Mathematics (3)	MATH 123	
	PHYS 151; <b>OR</b> PHIL 170; <b>OR</b> GE (Area C2)	Mechanics and Heat (4); <b>OR</b> Critical Reasoning (3); <b>OR</b> Foreign Language I (4)	MATH 122; <b>OR</b> GE Written Communication (A1); <b>OR</b> varies	
	GE (area C,D,E)	Other Explorations (3)		
	GE (area C,D,E)	Other Explorations (3)		
	4	MATH 247	Introduction to Linear Algebra (3)	MATH 123
	MATH 310	History of Early Mathematics (3)		
	PHYS 152; <b>OR</b> PHIL 270; <b>OR</b> GE (area C2)	Electricity and Magnetism (4); <b>OR</b> Symbolic Logic I (3); <b>OR</b> Foreign Language II (4)	PHYS 151, <i>Pre/Corequisite</i> : MATH 123; <b>OR</b> PHIL 170; <b>OR</b> varies	
	MTED 301; <b>OR</b> CECS 174	Computer Applications in Mathematics for Teachers (3) <b>OR</b> Intro Program. and Prob. Solving (3)	MATH 122; <b>OR</b> CECS 100 and MATH 113	
	Elective	Elective (3)		

## Year 3

Semester	Course #	Course Title (Units)	Prerequisites	Notes
5	MATH 380	Probability and Statistics (3)	MATH 224	
	MATH 355	College Geometry (3)	MATH 247	
	ENGL 101; <b>OR</b> ENGL 300; <b>OR</b> ENGL 317	Composition (3); <b>OR</b> Advanced Composition (3); <b>OR</b> Technical Communication (3)	GE Written Communication (A1) and GE Oral Communication (A2) and GE Critical Thinking (A3) and MATH 122 (B2)	101 not offered
	GE (area C,D,E)	Other Explorations (3)		
	Elective	Elective (3)		

Semester	Course #	Course Title (Units)	Prerequisites	Notes
6	MATH 341	Number Theory (3)	MATH 233	
	STAT 381	Mathematical Statistics (3)	MATH 247 and 380	
	EDSS 300M	Introduction to Teaching-Mathematics (3)		
	GE (area B1b); <b>OR</b> Elective	GE (area B1b) Physical Science (3-4); <b>OR</b> Elective (if took PHYS 151) (3)		
	GE (area C,D,E)	Other Explorations (3)		

## Year 4

Semester	Course #	Course Title (Units)	Prerequisites	Notes
7	MATH 444	Introduction to Abstract Algebra (3)	MATH 233, 247, and 341	
	MATH 410	History of Modern Mathematics (3)	MATH 247 and 310	Spring only
	GE (area F)	Capstone (3)	GE Written Communication (A1) and GE Oral Communication (A2) and GE Critical Thinking (A3) and MATH 122 (B2)	
	GE (area F)	Capstone (3)	GE Written Communication (A1) and GE Oral Communication (A2) and GE Critical Thinking (A3) and MATH 122 (B2)	
	Elective	Elective (3)		
8	MATH 361A	Intro. to Mathematical Analysis I (3)	MATH 224 and 247	
	MTED 411	Topics and Issues in Secondary School Mathematics (3)	MATH 310, 341, 355, 380, 444, AND EDSS 300M	
	Upper Division Elective	MATH (3)		
	GE (area F)	Capstone (3)	GE Written Communication (A1) and GE Oral Communication (A2) and GE Critical Thinking (A3) and MATH 122 (B2)	
	Elective	Elective (1)		