

BACHELOR OF SCIENCE IN MATHEMATICS
OPTION IN APPLIED MATHEMATICS
(SUBOPTION II: APPLICATION IN ECONOMICS AND FINANCE)
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	
	ECON 100	Principles of Macroeconomics (3)		
	GE (area A2)	Oral Communication (3)		
	GE (area A3)	Critical Thinking (3)		
	GE (area B1a)	Life Science (3-4)		B1a or B1b with lab

Year 2

Semester	Course #	Course Title (Units)	Prerequisites	Notes
3	MATH 224	Calculus III (4)	MATH 123	
	ECON 101	Principles of Microeconomics (3)		
	CECS 174	Intro Programming and Problems Solving (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	
	ECON 310; OR FIN 300	Microeconomic Theory (3); OR Business Finance (3)	ECON 100 and 101, MATH 115 or 119A or 122; OR none	
	GE (area B1b)	Physical Science (3-4)		B1a or B1b with lab
	GE (area C,D,E)	Other Explorations (3)		

Year 3

Semester	Course #	Course Title (Units)	Prerequisites	Notes
5	MATH 323	Introduction to Numerical Analysis (4)	MATH 224	
	MATH 364A	Ordinary Differential Equations (3)	MATH 224 and 247	
	ECON 311; OR FIN 350	Macroeconomic Theory (3); OR Investment Principles (3)	ECON 100 and 101, MATH 115 or 119A or 122; OR FIN 300	
	GE (area C,D,E)	Other Explorations (3)		
	GE (area C,D,E)	Other Explorations (3)		

Semester	Course #	Course Title (Units)	Prerequisites	Notes
6	MATH 361A	Introduction to Mathematical Analysis I (3)	MATH 224 and 247	
	STAT 381	Mathematical Statistics (3)	MATH 247 and 380	
	ENGL 101; OR ENGL 317	Composition (3); OR Technical Communication (3)	GE Written Communication (A1) and GE Oral Communication (A2) and GE Critical Thinking (A3) and MATH 122 (B2)	101 not offered
	Elective	Economics or Finance (3)		
	GE (area F)	Capstone (3)	MATH 122 (B2) and GE Written Communication (A1) and GE Oral Communication (A2) and GE Critical Thinking (A3)	

Year 4

Semester	Course #	Course Title (Units)	Prerequisites	Notes
7	MATH 361B	Intro. to Mathematical Analysis II (3)	MATH 361A	
	MATH 474; OR MATH 485	Mathematics of Financial Derivatives (3); OR Mathematical Optimization (3)	MATH 380, and either 364A or 370A; OR MATH 247 and either 323, 347 or 380	474 is Spring only 485 is Fall only
	Upper Division Elective	MATH/STAT Elective (3)		
	Elective	Economics or Finance (3)		
	GE (area F)	Capstone (3)	MATH 122 (B2) and GE Written Comm. (A1) and GE Oral Comm. (A2) and GE Critical Thinking (A3)	
	8	Upper Division Elective	MATH/STAT Elective (3)	
	Upper Division Elective	MATH/STAT Elective (3)		
	Elective	Economics or Finance (3)		
	GE (area F)	Capstone (3)	MATH 122 (B2) and GE Written Comm. (A1) and GE Oral Comm. (A2) and GE Critical Thinking (A3)	
	Elective	Elective (1)		