

BACHELOR OF SCIENCE IN MATHEMATICS (IMPACTED)
Option in Applied Mathematics (*Suboption II: Application in Economics and Finance*)
Major Requirements Worksheet
2017-2018 Catalog

Name: _____

Student ID: _____

*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. CSULB Enrollment Services prepares the Academic Requirements Report, which is the official graduation verification. **Pre-Mathematics majors must complete their GE Foundation courses, and the highlighted areas below all with a "C" or better and a cumulative GPA of 2.5, by 60 units to be considered for the major.***

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

Semester	Grade	Course #	Course Title	Prerequisites
		MATH 122 [†]	Calculus I (4)	Appropriate MDPT placement* or MATH 111 and 113
		MATH 123 [†]	Calculus II (4)	MATH 122
		MATH 224	Calculus III (4)	MATH 123
		MATH 247	Introduction to Linear Algebra (3)	MATH 123
		ENGL 317	Technical Communication (3)	GE Foundation requirements, upper-division standing, and a previous composition course*
		CECS 174	Introduction to Programming and Problem Solving (3)	MATH 113 (or equivalent)

*See catalog for more detail

Choose ONE of the following groups:

Semester	Grade	Course #	Course Title	Prerequisites
		ECON 100	Principles of Macroeconomics (3) AND	MATH 103 or higher and one GE Foundation course
		ECON 101	Principles of Microeconomics (3)	MATH 103 or higher

OR

Semester	Grade	Course #	Course Title	Prerequisites
		ECON 300	Fundamentals of Economics (3)	GE Foundation requirements

UPPER DIVISION COURSES (See major faculty advisor)

Take ALL of the following courses:

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, and MATH 233 or 247
		MATH 361B	Introduction to Mathematical Analysis II (3)	MATH 361A
		MATH 364A	Ordinary Differential Equations I (3)	MATH 224, and <i>Pre/corequisite</i> : MATH 247
		MATH 380	Probability and Statistics (3)	MATH 224
		STAT 381	Mathematical Statistics (3)	MATH 247 and MATH 380

Choose a *minimum* of 9 UNITS from the following: MATH 364B, 423, 463, 470, 474, 479, 485; STAT 410, 482, including at least one of MATH 474 or MATH 485:

Semester	Grade	Course #	Course Title	Prerequisites

Choose a *minimum* of 15 UNITS from ONE of the following groups**:

<i>GROUP A</i>	<i>GROUP B</i>
<p>Take BOTH of the following courses:</p> <ul style="list-style-type: none"> ECON 310 Microeconomic Theory (3) AND ECON 311 Macroeconomic Theory (3) <p>Take 9 units selected from the following: ECON 333, 410, 411, 420, 485, 486</p>	<p>Take BOTH of the following courses:</p> <ul style="list-style-type: none"> FIN 300 Business Finance (3) AND FIN 350 Investment Principles (3) <p>Take 9 units selected from the following: FIN 450, FIN 460, FIN 480, FIN 485, FIN 490</p>

**The following upper-division units are excluded: MATH 303, 309, 370A, 370B, 409

Semester	Grade	Course #	Course Title	Prerequisites