

CALIFORNIA STATE UNIVERSITY, LONG BEACH  
*Department of Mathematics and Statistics*

**MINOR IN MATHEMATICS (Code MATHUM01)**

This minor allows students in other majors to gain an understanding and thorough introduction to university level mathematics. The requirements are as follows:

1. **Lower Division:**

MATH 122	Calculus I (4 units)	
MATH 123	Calculus II (4 units) *	(See note 5, below)
MATH 224	Calculus III (4 units) *	(See note 5, below)
MATH 247	Introduction to Linear Algebra (3 units)	

2. **Upper Division:**

MATH 361A Introduction to Mathematical Analysis I (3 units)

6 additional units of upper division MATH or STAT courses excluding

MATH 303I, 370A (6 units)

3. Attain at least a 2.0 GPA over the courses taken for the minor.

4. Have minor code MATHUM02. (If you wish to change your code, see an advisor. It may be possible for Dr. Merryfield to do this electronically.)

5. Complete all requirements for the minor by the time the bachelors degree is awarded.

**Minor in Mathematics Advisors:** Murray, Merryfield.

*Notes:*

1. There is no "program planner" or similar document to be filed with this minor, but if substitutions must be made, ask a Mathematics Minor advisor to appropriately inform Enrollment Services.
2. A minimum of 6 units of coursework towards this minor must be taken at CSULB. All courses counted toward this minor must be in Mathematics or Statistics departments.
3. Majors in the Department of Mathematics and Statistics are not eligible for this minor.
4. The same courses may be used to fulfill requirements for both this minor and the student's major.
- \*5. MATH 123 and 224 may be replaced by MATH 222 and one more 3 (or more) unit upper division MATH course (excluding MATH 303I or 370A) in addition to the above upper division requirements.
6. Course substitutions for Mathematics courses required for a student's major may not be valid for the purposes of the minor. Ask a Mathematics advisor about such courses.
7. A student who will be unable to complete requirements for the minor should ask a Mathematics Advisor for help in appropriately informing Enrollment Services.