

UCLA

Student Learning Outcomes for the B.S. in Mathematics for Teaching

Mathematics for Teaching is a designated capstone major. In their senior year, students complete a year-long course sequence that culminates in a model lesson presentation, paper, and portfolio. Mathematics for Teaching Major graduates:

- should have a strong mathematical content knowledge.
- should have a sound theoretical and practical background for all the mathematics that they would expect to teach in secondary schools.
- will understand the importance of “mathematical thinking” to design their teaching to imbue students with a problem solving and analytical spirit.
- will be familiar with pedagogical research and be able to apply it to classroom work.
- will be able to do effective lesson planning.
- will have preparation and experience in different modes of instruction and will be able to use their mathematical sophistication to shape their lessons.
- will be prepared to recognize and respond to the expected difficulties that arise in the classroom due to conceptual understanding and misunderstanding.