UNIVERSITY OF CALIFORNIA, RIVERSIDE

Student Learning Outcomes for the B.A./B.S. in Mathematics

Students completing the B.A./B.S. major will be able to:

I. Mastering basic math skills: Manipulate basic algebraic expressions, explain how notions such as rate of change, area, and volume are related and can be expressed in terms of differentiation and integration.

II. Thinking abstractly: Translate between abstract definitions and specific examples.

III. Analyzing logical arguments: Parse mathematical statements, determine whether they are true or false, identify and articulate flaws or gaps in mathematical arguments.

IV. Communicating logical arguments: Express mathematical ideas clearly, both in writing and orally. Construct and write basic mathematical proofs that are clear, organized, syntactically correct, and logically sound. Orally present mathematical ideas clearly.

V. Formulating real-world problems in mathematical language: Apply appropriate mathematical concepts to model or describe real-world problems.

Program Website: http://mathdept.ucr.edu/