

# MATHEMATICS

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## Learning Outcomes

### Master of Arts (M.A.)

1. Understand advanced mathematical topics and methods and implement some of them.
2. Summarize and explain state-of-the-art research in Mathematics.
3. Communicate mathematical results and ideas in a pedagogical manner, both through written publications and oral presentations and in the context of teaching in a classroom.
4. Carry out fully rigorous mathematical arguments.
5. Conduct themselves in accordance with the highest ethical standards and values.

### Doctor of Philosophy (Ph.D.)

1. Understand and implement advanced mathematical topics and methods.
2. Conduct research and advance mathematical knowledge at the highest level of excellence.
3. Communicate mathematical results and ideas in a pedagogical manner, both through written publications and oral presentations and in the context of teaching in a classroom.
4. Design and carry out fully rigorous mathematical arguments.
5. Conduct themselves in accordance with the highest ethical standards and values.