Academic Assessment Plan

Doctor of Philosophy in Mathematics

May 31, 2016

Program Goals

The Doctor of Philosophy in Mathematics aims to establish a student in a research level mathematics career, within academia or industry. To that end the student should demonstrate:

1) An ability to undertake original research level mathematical investigation.

2) Mathematical breadth and sophistication in the foundational subject areas of analysis, algebra and topology.

3) An understanding of the field of specialization, its context, structure, and literature.

4) An ability to write, discuss and lecture at a research level.

Student Learning Outcomes

1) An ability to undertake original research level mathematical investigation.

2) Mathematical breadth and sophistication in the foundational subject areas of analysis, algebra and topology.

3) An understanding of the field of specialization, its context, structure, and literature.

4) An ability to write, discuss and lecture at a research level.

Process for Assessing each Student Learning Outcome

1. **Timeline for assessment and analysis**

   Continual.

2. **Means of assessment and desired level of student achievement**

The Ph.D. program is aimed squarely at these outcomes. Our graduating Ph.D. students, by passing their qualifying exams and producing a thesis demonstrate outcomes (1-4), and this is assessed continually by our Departmental Graduate Committee, our faculty, and our peers.

3. Reporting of results

Results will be reported annually to the Dean of Fulbright College.