MS MATHEMATICS

Program Learning Objectives

- 1. Demonstrate a high level of overall mathematical knowledge in the traditional areas of advanced mathematics, such as algebra, analysis, topology, and discrete mathematics.
- 2. Apply mathematical knowledge in new settings.
- 3. Produce detailed, rigorous, and correct proofs.
- 4. Communicate effectively in oral and written forms.

Required Courses

MATH 505	Graduate Teaching Seminar	1
MATH 520	Applied Analysis I	4
MATH 521	Applied Analysis II	4
MATH 530	Discrete Mathematics with Applications I	4
MATH 531	Discrete Mathematics with Applications II	4
MATH 540	Topology I	4
MATH 541	Topology II	4
MATH 548	Transition to Graduate Mathematics	4
MATH 550	Real Analysis	4
MATH 560	Field Theory	4
MATH 561	Graduate Algebra	4
Electives		4
Select additional units at the 400 or 500 level as approved by the Graduate Committee.		

Satisfactory completion of the comprehensive examinations.

Total units 45