LEARNING OUTCOMES

1. State, explain, and apply the principal results, definitions, and theorems of a wide collection of mathematical areas including at least one area of advanced undergraduate mathematics.

2. Construct and evaluate mathematical proofs and arguments.

3. Acquire a diverse set of skills and strategies in mathematical reasoning/problem solving.

4. Use mathematics to model and analyze phenomena in other disciplines.

5. Write, explain, and present mathematics to both experts and non--experts.