

Program Name: Master of Science degree in Actuarial Science

Academic Department: Actuarial Science

Program Director/Coordinator: Lois K. Horwitz

Date approved by department/program faculty: 05/01/2014

Learning Objectives:

Students graduating with a degree in Actuarial Science are expected to:

- 1. Students will demonstrate a detailed knowledge of the mathematics and statistics that form the core of actuarial calculations. This knowledge includes topics in probability, financial mathematics and derivatives, life contingencies, and loss modeling, with an emphasis on precision and accuracy.*
- 2. Students will be able to distinguish and describe in depth many actuarial practice areas and understand the principles that govern the development of insurance products for those areas, including emerging trends.*
- 3. Students will have the computer skills to analyze data using the most current software tools used by insurance industry leaders.*