Student Learning Outcomes for the B.S. in Mathematics/Applied Science

Mathematics/Applied Science graduates:

- should have a strong mathematical content knowledge of single and multivariate differential and integral Calculus and differential equations.

- will be familiar with linear algebra, techniques of proof and the foundations of real analysis.

- learn how to synthesize material, problem, solve, and think abstractly.

- will be able to perform basic computer programming, especially in C++.

- will be able to pass the Society of Actuary Probability exam and be familiar with basic statistical analysis (probability distributions, random variables, survey sampling, testing, data summary, sums of squares principles, testing general linear hypothesis in regression, inference procedure). (Actuarial Plan graduates only).

- should be able to compose essays that require critical thinking. (Mathematics/History of Science Plan graduates only).

- should be prepared to take the MCAT. (Medical and Life Sciences Plan graduates only).