

B.S. in Data Science

The Bachelor of Science degree in Data Science emphasizes the acquisition of data, extraction of knowledge from data, and communication of actionable results. The program seeks to develop a student with the capacity to acquire, manage, secure, and analyze large and varied sets of data using modern software and techniques. The goal of the program is to educate and graduate professionals who are equipped for employment as data scientists or to continue their education in graduate school.

Data Science is an applied discipline that addresses the challenge of generating actionable knowledge from data. To successfully do this requires a sequence of steps: relevant questions must be formulated, data which can address the question must be identified and acquired, the data must be cleaned and secured, the data must be analyzed, and the results must be communicated to stakeholders. The required skillset joins the fields of mathematics, computer science, and statistics, augmented by emerging techniques unique to the field of data science. A successful practitioner will also develop domain expertise in a chosen field such as Air Traffic Control, Business/Economics, Computer Science, Cyber Security, Mathematics, Physics, or Psychology.