

M.S. in Data Science

Embry-Riddle's Master of Science in Data Science (MSDS) equips students with the practical skills needed to transform data into actionable decisions. The program prepares graduates to meet the challenges of the big data revolution using the latest computational and analytical tools.

The interdisciplinary coursework, world-renowned faculty, and state-of-the-art labs enable students to work collaboratively within distinct tracks of data specialization. Graduates are trained to lead industries such as aviation, cybersecurity, business, homeland security, and safety using advanced data analysis strategies.

With demand for data scientists expected to grow significantly by 2034, according to the U.S. Bureau of Labor Statistics, an MSDS from Embry-Riddle enhances marketability and positions graduates for success across a wide range of high-demand sectors.

The Master of Science in Data Science at the **Daytona Beach Campus** is housed in the College of Arts and Sciences' Department of Mathematics. In this advanced program, students develop strong skills in data collection, pre-processing, analysis, visualization, and ethical considerations in data science.

All core courses are project-based, allowing students to apply what they learn through hands-on assignments and real-world problem solving. The program culminates in a capstone project or an internship in a chosen domain area, providing valuable professional experience and preparing students to clearly communicate insights through effective data visualization.

Specializations

The program offers flexibility for students to choose one of five specialization tracks:

- Aviation Business
- Aviation Safety
- Cybersecurity
- High-Performance Computing and Big Data
- Intelligence and Security
- Human Factors and Bioinformatics