MASTER OF SCIENCE IN
Data Analytics

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE
COLLEGE OF SCIENCES

www.ce.ucf.edu/data
Help companies use large amounts of data in innovative ways.

Become an expert in the fast-growing field of data analytics and big data. There is an increasing need to turn large and complex amounts of data into knowledge to drive business decisions. Companies are looking for people with the technical skills to manipulate, manage, and interpret data. According to InsideHigherEd.com, “An estimated 2.72 million new job postings in 2020 will seek workers with skills in data science and analytics.”

What is the UCF MS in Data Analytics?
The MS in Data Analytics is a 30 credit hour interdisciplinary program that prepares students to develop algorithms and computerized systems to facilitate the discovery of information from large amounts of data. It will utilize the technical aspects of big data analytics, including algorithm design, programming, acquisition, management, mining, analysis, and interpretation of data.

Job titles associated with this field:
Data Scientist, Data Analyst, Data Architect, Database Administrator, Data Engineer, Data Mining Specialist, Business Intelligence Analyst, Big Data Engineer, Big Data Scientist, Database Administrator

Highlights

- 30 credit hours to completion
- Completion in 16 (full time option) or 20 months
- Face to face instruction at UCF’s main campus
- Convenient evening and/or weekend classes
- Rich and flexible internship program
- High-demand/high-wage jobs
- Taught by UCF Faculty in the field of Data Analytics
- Cohort model for strong peer support
- Free Bridge courses available

Help companies use large amounts of data in innovative ways.
By graduation, students will be able to:

- Use state-of-the-art software tools to perform data mining and analysis on large structured and unstructured data sets, and transform such data into knowledge.
- Design and implement new algorithms for data mining and analysis, and study their time, space, and energy efficiency.
- Perform data acquisition and management for extremely large and dynamic databases.
- Present and communicate knowledge derived from data in an unambiguous and convincing manner.

Learn employable technical skills on Big Data.
The curriculum includes using technologies that industry uses and prefers.

Course of Study

- **Statistical Analysis**  
  STA 5206
- **Machine Learning**  
  CAP 5610
- **Parallel and Distributed Databases**  
  COP 5711
- **Network Science**  
  CNT 5805
- **Data Mining Methodology I**  
  STA 5703
- **Data Mining Methodology II**  
  STA 6704
- **Parallel and Cloud Computation**  
  COP 6526
- **Project in Data Analytics**  
  CAP 6XXX
- **Elective I**  
  CAP or STA
- **Elective II**  
  CAP or STA

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How do I apply?

Admission Requirements

- Bachelor’s degree from an accredited institution with a GPA of 3.0 or better
- GRE and TOEFL (if applicable) scores taken in the last 5 years
- Coursework or industry experience in Computer Science or Statistics
- Bridge courses offered by UCF for applicants who lack related experience

Contact

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More program information and admissions criteria can be found by visiting www.ce.ucf.edu/data. Enrollment is limited to 34 students.