Increase your job prospects with the necessary skills for professional positions in data science and statistics.

**PROGRAM HIGHLIGHTS**

- One-calendar-year hybrid program combining on-campus and online courses
- Builds a solid foundation in applied statistics and provides rigorous principles to guide statistical inference
- Teaches fundamental skills in modeling and analysis of complex data
- Provides hands-on experience through in-class learning and research project internships in industrial, commercial or biomedical settings
- Improves programming skills to the professional level for data analytics
- Broadens knowledge of statistical research and machine learning
- Requires a minimal prerequisite of mathematical/statistical knowledge and programming languages
COURSEWORK

- 8 Core Classes (24 credit hours)
  - Probability Models & Statistical Computing
  - Linear Models & Design of Experiments
  - Statistical Learning & Data Mining
  - Programming Foundation for Data Analytics
  - Applied Statistics & Multivariate Data Analysis
  - Deep Learning & Artificial Neural Networks
  - Big Data Analytics
  - Information Visualization

- 1 Elective Class from the Following (3 credit hours)
  - Genome Data Analysis
  - Biomedical Data Analysis & Computing
  - Case Studies in Data Science

- Master’s Tutorial: Summer Internship Project (3 credit hours)

PREREQUISITES

Calculus II and Linear Algebra

APPLICATION DEADLINES

Fall semester admissions only.

- International Applicants: May 1
- U.S. Citizens: June 1

ADMISSION REQUIREMENTS

Applicants must hold a bachelor’s or master’s degree. A major in Mathematics is not required. The Admissions Committee evaluates each applicant’s credentials, considering a broad range of criteria, including:

1. Content of prior degree programs and competency in mathematics, including prerequisites
2. Background in probability and statistics is not essential, but is a plus
3. Proficiency in at least one of the main programming languages used in data analysis (R, SAS, Matlab, Python) is not required, but is helpful
4. Cumulative GPA of 3.00 or higher in the last 60 hours
5. GRE scores (verbal, quantitative and analytical writing) taken in the last 5 years; advanced GRE is recommended but optional
6. Letters of recommendation from three individuals (preferably faculty members)
7. English proficiency test scores, when applicable
8. Resume and personal statement

Start Your Application

www.uh.edu/nsm/grad-apply

University of Houston is a federally designated Minority-Serving Institution.