Data Science | *Bachelor of Science • Minor*

Data Science can be defined as the science of gathering insight and information from data. It is the science of everything associated with data: creation of algorithms, software, tools and techniques, mathematical/statistical theory and practice of analysis, theory and practice of visualization and presentation, and data engineering.

PROGRAM FEATURES

The Data Science program is a collaboration between the Computer Science and Mathematics Departments at Southern. Majors begin learning data science during their first semester in DSC 100 and continue the next semester in DSC 101. These classes introduce students to Python programming and the fundamentals of data science.

Majors complete upper level coursework from computer science & mathematics/statistics: data mining, machine learning, web and database development, linear algebra, Bayesian analysis and decision making, time series analysis, and non-parametric statistics.

On graduating students will be ready to pursue careers in a variety of fields in business, industry, and technology, or to continue their studies at the graduate level.

Data Science, B.S. With the B.S. degree, students will be prepared for a promising career in business or industry. The skills gained from the data science program are applicable to dozens of fields, from biotechnology to finance and business analytics. Graduates are skilled in identifying and assessing organization needs for data science, acquiring data, and implementing data science solutions based on knowledge of related models.

Minor in Data Science This minor complements a variety of majors, including biology, computer science, earth science, economics, physics, political science, psychology, and liberal studies. It provides students with critical data-centric skills necessary for success for today's data-driven decision processes.

For more information on program requirements, visit
Catalog.SouthernCT.edu/undergraduate

CAREER OPPORTUNITIES

Data scientists are in high demand: jobs in technology, marketing, health care, pharmaceuticals, finance, and government abound. The Bureau of Labor Statistics is projecting a 19% increase in demand from 2016 through 2026, and excellent opportunities exist through Connecticut's tech corridor (Stamford to New Haven to Hartford) and in the financial centers of Boston and NYC.
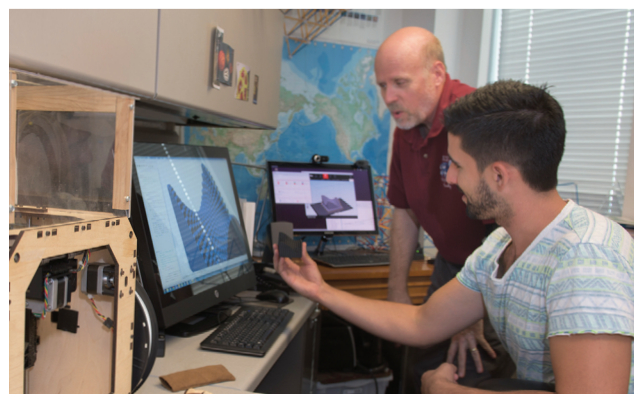
FOR MORE INFORMATION

Undergraduate Admissions Office
501 Crescent Street, New Haven, CT 06515 | (203) 392–5644
Admissions@SouthernCT.edu
SouthernCT.edu/admissions/undergraduate

Majors complete a challenging capstone project in DSC 490 that parallels the data science life-cycle from conception, through data acquisition, data cleaning and transformation, visualization, model building and evaluation, and presentation of findings.

FOR 2019, LINKEDIN IDENTIFIED DATA SCIENTIST AS THE MOST PROMISING JOB IN THE U.S., WITH A MEDIAN BASE SALARY OF $130,000 AND A 56 PERCENT INCREASE IN JOB OPENINGS IN THE LAST YEAR.

Expect more. Be more.
Southern.

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