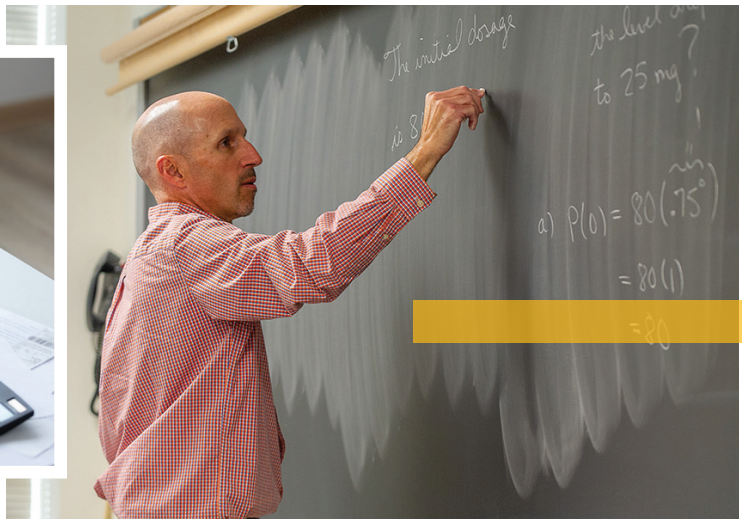

Data Science

Data science major • Data science minor

100%
of our students complete an internship and undergraduate research.

Data science, one of today's fastest growing fields, combines the insight of mathematics and the power of computing with an area of application, allowing you to apply your skills to topics that interest you.

THE CLASSROOM EXPERIENCE

Going beyond the technical to the professional

The data science program at Franklin College was created in close consultation with business and community leaders in the field. Our innovative program will help you develop the technical skills needed for data science, along with self-awareness and a professional disposition that will help you excel in your chosen career.

SCAN
to learn more

Right from the outset, you will start building your skills and completing a full data science project using a dataset of your choice. You will learn how to code in the popular programming language of Python while being introduced to key data science concepts such as machine learning.

As you progress through the program, you will complete larger projects designed to expand your capabilities. In the course Big Data and the Professional Workplace, you will partner with a team of students and a Franklin College alumnus who works with big data for a semester-long project. Through your participation in the project, you will gain valuable experience as well as a connection within the data science field.

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FRANKLIN COLLEGE

In addition to coursework, data science students design and execute projects from start to finish, working with faculty, alumni and non-profit partners to apply data research in solving real-world problems.

Moving beyond the pure technical skills of data science, in Human Perspectives in Data Science you will gain awareness about the strengths and limitations of the tools used by data scientists. Through a series of case studies, you will learn:

- Why data is not completely objective and how the choices made at each step of the data science process can influence the final output of data-driven models
- Specific strategies that can be employed when creating data-driven models to prevent unintended negative consequences for the people to whom the models are applied

Finally, the data science capstone grants you the opportunity to take the lead on a major project related to your chosen field of application. You guide the process from start to finish: choosing a topic, defining the problem, collecting and exploring data, building a model and analyzing results.

OUTSIDE THE CLASSROOM

Internships and real-word application

Every data science major will complete at least one internship. Often these internships lead to full-time jobs after graduation. Past data science students have interned at businesses such as:

- Beckman-Coulter Life Sciences
- B2S Life Sciences
- Cummins

In addition, all data science majors will complete a statistical consulting project. Here, your team is paired with a non-profit organization from the greater Indianapolis area to assist them in answering a data-based question relevant to their mission. Past project partners have included:

- Humane Society of Johnson County
- Down Syndrome Indiana
- Interchurch Food Pantry
- Indiana Youth Institute

POST-GRADUATION

In demand and making a difference

According to the Bureau of Labor Statistics, "Employment of data scientists is projected to grow 34 percent from 2024 to 2034, much faster than the average for all occupations." With increasingly large amounts of data being collected year after year, data scientists are in demand and well-compensated, with median salaries upwards of $100,000. Data scientists find rewarding careers in a variety of exciting fields and help make decisions that shape the future.

Department overview

- **Nationally recognized program:** The Franklin College Department of Mathematics and Computing has been recognized by EDUCOM, a national educational computing organization, as one of its success stories of Information Technology in Higher Education, and was selected by the American Mathematical Society as the recipient of the 2019 Award for an Exemplary Program or Achievement in a Mathematics Department.
- **Department contact information:** Read more about the program at **FranklinCollege.edu/data-science** or contact Stacy Hoehn, Ph.D., professor of mathematics, at 317.738.8865 or **shoehn@FranklinCollege.edu.**

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