

University of Indianapolis – Shaheen College of Arts & Sciences
2025-2026 Curriculum Guide for the Data Science Minor (DATA)
 Minor

Required Courses (21 credits):

- **CSCI 155** Introduction to Programming using C (3)
- **CSCI 156** Introduction to Object-Oriented Programming (3)
- **CSCI 240** Data Structures and Algorithms (4)
- **MATH 350** Probability and Statistics I (3)
- **MATH 425** Statistical Learning (4)
- **CSCI 424** Big Data Mining (4)

Elective courses (3-4 credits):

One additional course to be chosen from the list below:

- **MATH 415** Bayesian Analysis and Statistical Decision Making (4)
- **MATH 335** Operations Research I (3)
- **MATH 345** Applied Statistical Methods (4)
- **MATH 351** Probability and Statistics II (3)
- **MATH 510** Applied Statistics (3)
- **CSCI 370** Database Systems (4)
- **ISEN 420** Statistical Quality Control (3)
- **XXXX XXX** Capstone/ Undergraduate Research with Data Science focus (3) *

Total Hours for Data Minor: **24-25**

* Needs approval of the Department of Mathematical Sciences.

NOTES:

- A grade of C- (1.7 on a 4.0 scale) or higher is required in all courses applying toward the DATA Minor.
- Some MATH courses may (higher level) have additional math prerequisites.
- MATH 325: Special Topics in Mathematics may count as an elective with prior approval from the mathematical sciences department.

REMEMBER: If you have any questions about the Data Science minor and its requirements, contact Dr. Livia Hummel, Department of Mathematical Sciences (317-788-3320; hummell@uindy.edu). Courses and requirements sometimes change so keep in contact with your advisor.