New Minor in Data Science and Engineering

All RPI undergraduates are eligible to pursue a multidisciplinary minor in Data Science and Engineering, offered through the Department of Industrial and Systems Engineering (ISE). The minor combines techniques and methods from data science and systems engineering.

Foundational courses include statistical analysis, experiment design, and database systems, with electives available in a broad range of areas.

The minor in Data Science and Engineering provides in-depth, hands-on experience with data, a solid theoretical foundation, and opportunities for broadening engagement in diverse areas of study.

**Required courses:**
ISYE-4140 Statistical Analysis  
ISYE-4330 Design of Experiments  
ISYE-4530 Information Systems

*At least two of the following courses:*
Data Quality and Architectures  
CSCI 4370 Data and Society (4)  
CSCI 4380 Database Systems (4)  
CSCI 4390 Database Mining (4)  
ITWS 4400 X-Informatics (4)  
ITWS 4350 Data Science (4)  
MATP 4400 Introduction to Data Mathematics (4)

Inference and Learning  
BIOL 4200 Biostatistics (4)  
BMED 4480 Biomedical Data Science (4)  
ECON 4570 Econometrics. Credit hours (4)  
ISYE 4260 Human Performance Modeling and Support (3)  
ISYE 4760 Mathematical Statistics (4)  
ISYE 4810 Computational Intelligence (3)  
PSYC 4310 Research Methods and Statistics II (4)

*Other courses subject to ISE Department approval.*

**Note.** Students pursuing this minor must satisfy course prerequisites and/or corequisites as needed, which may involve additional course work. See RPI Catalog for official details and instructions.

**Questions?** Contact Prof. David Mendonça (mendod@rpi.edu).

**How to Enroll?**  
Submit the Minor Approval Form:  
[https://www.rpi.edu/dept/srfs/MINORAPPRVFORM.pdf](https://www.rpi.edu/dept/srfs/MINORAPPRVFORM.pdf)