

Data Science and Engineering (DSE) Concentration

Accepting Applications Now!

- **What:** The DSE concentration is designed for graduate students at the Ph.D. levels with an interest in data-intensive computing.
- **Why:** DSE concentration recognition opens new doors to research and employment opportunities
- **Who:** Open to Ph.D. students in 12 participating programs:
 - Aerospace Engineering, PhD
 - Agricultural & Biological Engineering, PhD
 - Bioengineering, PhD
 - Civil Engineering, PhD
 - Computer Science, PhD
 - Electrical & Computer Engineering, PhD
 - Industrial Engineering, PhD
 - Materials Science & Engineering, PhD
 - Mechanical Engineering, PhD
 - Nuclear, Plasma, & Radiological Engineering, PhD
 - Physics, PhD
 - Statistics, PhD
- **When:** We are now accepting applications for DSE concentration until October 14, 2022. Due to limited resources, we may not accept all applications. Preference will be given to early applications determined by the application date. CSE plans to send notifications to admitted students by October 21.



For more information: <https://go.illinois.edu/DSE>
Any questions? email Bryan Wang (bpcwang@illinois.edu)

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- **How:** 16 credits hours from approved list

8 credits	Core Coursework One course from two of the three groups	Mathematical Foundations (MF) & Statistical Thinking (ST) STAT 425 Statistical Modeling I STAT 432 Basics of Statistical Learning CSE 448 Advanced Data Analysis CS 441 Applied Machine Learning CS 446 Machine Learning Mathematical Foundations (MF) & Computational Thinking (CT) CS 450 Numerical Analysis CS 484 Parallel Programming CSE 428 Statistical Computing Data Description and Curation (DX) & Data Modeling (DX) STAT 480 Data Science Foundations CS 412 Introduction to Data Mining
8 credits	DSE Electives 4-hour course x2 from the approved list	https://go.illinois.edu/DSE
	Additional Requirements	Completion of an online course and one seminar on data science, ethics, and social justice. Details of this requirement are forthcoming.

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