

# STAT 447/847

# 2026-2027

# Statistical Machine Learning T1 for Data Science

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## Instructor:

Dr. Li Xing  
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## Course Details

STAT 447 CRN 89326  
STAT 847 CRN 90783

## Schedule:

Term 1  
MWF: 1:30 PM-2:20 PM

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## Tentative Topics:

Some of the topics covered will include:

- An introduction to machine learning
- Data management using R
- Reproducibility and data visualization
- Supervised and unsupervised learning.

## Course Objective:

The goal of this course is to introduce statistical methods for supervised and unsupervised learning, grounded in mathematical and statistical theory, while developing hands-on skills in R through applications to real data.

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## Students Who May Be Interested:

Undergraduate students in Statistics, Mathematics, Computer Science, and Biostatistics.

Graduate students in Statistics, Mathematics, Computer Science, and Biostatistics.

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## Other Information:

The course focuses on developing hands-on skills in statistical software, R, with an emphasis on applications to real-world data.

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