

# COLLEGE OF CHEMISTRY COURSE GUIDE (../INDEX.HTML)

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## CS 189 - INTRODUCTION TO MACHINE LEARNING (4 UNITS)

(Taken from the UC Berkeley Course Guide (<http://guide.berkeley.edu>))

### COURSE OVERVIEW

#### SUMMARY

Theoretical foundations, algorithms, methodologies, and applications for machine learning. Topics may include supervised methods for regression and classification (linear models, trees, neural networks, ensemble methods, instance-based methods); generative and discriminative probabilistic models; Bayesian parametric learning; density estimation and clustering; Bayesian networks; time series models; dimensionality reduction; programming projects covering a variety of real-world applications.

#### PREREQUISITES

MATH 53 ([math53.html](#)), MATH 54 ([math54.html](#)), CS 70 or consent of instructor

### WORKLOAD

#### TIME COMMITMENT

3 hours of lecture and 1 hour of discussion per week.

## COLLEGE OF CHEMISTRY PEER SERVICES

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