

Statistics G8243: Course Information

Instructor: Ioannis Kontoyiannis

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Class Meetings: Tuesdays and Thursdays, 2:40-3:55 p.m.
in room 1025 in the SSW bldg

Office Hours: Thursdays 4-6 p.m., or by appointment

Class web-page: TBA

PREREQUISITES.

Knowledge of basic probability. Depending on the background of those attending the class, the contents and the level of mathematical sophistication of the course may vary accordingly.

BOOKS.

We will follow several parts of the book by Cover and Thomas, *Elements of Information Theory*. Material may also be drawn from other places, e.g., *Information Theory* by Csiszár and Körner, and *Information Theory and Reliable Communication* by Gallager.

HOMEWORKS.

Homework assignments will be given every 2-3 weeks, and solutions will usually be provided together with the graded homeworks.

COURSE REQUIREMENTS – GRADING.

Instead of a final exam, students in the class will have the option of either giving an oral presentation in class on material drawn from the recent relevant literature, or doing a project and writing a project report. If you insist on a formula, the *rough* breakdown of your final grade is: Final project/presentation 85%, Homework 15%.

QUESTIONS.

Please INTERRUPT and ask during class. Also come to office hours.

ATTENDANCE.

You are expected to come to every class; attendance will be noted.

IS THIS CLASS FOR YOU?

This class is intended to be for first-year graduate students and for advanced undergraduates in Math, Stat, Engineering, CS, and related fields. If you are not sure if you have the required background for the class, you should come talk to me now.