CS112 - Modelling Uncertainty in Information Systems

*“All models are wrong.*

*Some models are useful.”*

- George Box

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Office Hours: Right after class

Teaching Assistant: Fabio Angius ([fangius@cs.ucla.edu](mailto:fangius@cs.ucla.edu))

Office Hours:

Monday: 330pm:430pm

Friday: 230pm:330pm

Note: Please do not contact me on my personal email or Instant Messaging

Program:

Week Topic

1. Elementary Math – Transforms

2:4. Probability Theory, Random Variables, Expectation

5:6. Stochastic Processes

7:9. Queueing Theory

Homonymous sections can be found in the course reader.

Evaluation:

8 Assignments (10%) - Every week except before midterm and final

2 Quizzes (10%) - before midterm and final

1 Midterm (30%) – Sixth week

1 Final (50%) – Date is published on URSA

Material:

* Performance Modeling Fundamentals (Sanadidi/Muntz) – Academic Publishing, Course Reader
* Introduction to probability,1st or 2nd edition (Bertsekas/Tsitsiklis)

Homework:

Assignments will be published every Thursday and will be due the next Friday before class. The students are strongly encouraged to type their work and to use the online submission on courseweb.