EM308-course outline

Monday, Wednesday 2-4pm, Prof. E. Barouch 15 St. Mary St. Room 134 Email; <u>eytan@bu.edu</u> 617-358-0845 Office hours: Tuesday 10-12

Attendance: Mandatory Homework: will be graded & returned Tests: Three in-class two hour tests . Project: A numerical project will be assigned Text Book: Probability and Statistics by Jay L. Devore, 8th ed. (I will not assign HW from there so any late edition is ok)

GRADES:

HW: 20%, Each test 20%+/-- 5%, Project 20% +/- 5%Total 100% Adjustment might take place when all data is in.

RULES

No Late Project or HW Accepted. No make-up exams given. Upon submission of a medical excuse signed by a MD on official stationary an absence will be taken as non-existent for grade computation. An absence of the last 2hour test and/or the project will earn an I(incomplete)

<u>Topics</u>

- 1. Probability space and events
- 2. Composite events and combinatorics
- 3. Discrete random variables (RV)
- 4. Continuous RV and their distributions
- 5. Expected values, mean and variance
- 6. Sums of RV and stability
- 7. Confidence Intervals
- 8. Hypothesis Testing
- 9. ANOVA
- **10. Quality Control and matches**