Spring 2009 COURSE DESCRIPTION FOR JUDGMENT AND CHOICE PROCESSES AND DECISION MAKING (OR/SYST 671-01)

Instructor: Dr. Leonard Adelman

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Office Hours: Tuesdays, 3:30 - 4:10 (or by appointment)

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Texts:

Hastie, R., & Dawes, R.M. (2001). Rational Choice in an Uncertain World. Thousand Oaks, CA.

Zsambok, C. E. & Klein, G., (eds.), (1997). *Naturalistic Decision Making*. Mahwah, NJ: Lawrence Erlbaum.

Prerequisite: STAT 510 or equivalent or permission of instructor.

The purpose of this course is to overview the scientific literature on judgment and decision making processes. The first part of the course reviews research within the context of behavioral decision theory, which has primarily been conducted within controlled, laboratory settings. The second part of the courses focuses on the naturalistic decision making approach that has become prevalent in non-laboratory settings, such as the military, aviation, and nuclear industries.

There is a mid-term exam, a final exam, and a student project. I use the full grading scale, including pluses and minuses. Each of the two exams is worth 30% of your grade; the student project is worth 20%. The exams will be based on questions that I handout in class. The questions will cover material presented in the texts and class. The exams are closed-book and closed-notes. I will tell you which questions have the highest probability of being on the exams during the review period. I will not review written answers to questions prior to the exams. So, please use the review period to make sure you know the answers to questions that might be on the exams. Laptops can not be used to take the exams.

I expect students to read the material for each week's class before the class so that they can answer questions about it. Since I will be teaching the class using a seminar format, class participation is critical to its successful implementation. Therefore, I will grade class participation after each class session. Please notify me if you are not able to attend class. You are permitted to miss 2 classes, with notification. After that, you will receive a "F" for a missed class session. Class participation is worth 20% of your grade.

The purpose of the student project is to give students an opportunity to apply what they have learned in class to a real world problem or to conduct an experiment investigating judgment and decision making hypotheses. You are required to use statistical tests to support your conclusions. Feel free to use material from work and/or other classes. Just make sure that I can clearly see how you are effectively applying what you have learned in this class to your selected problem. The result of the project will be a 15 minute presentation (with viewgraphs) on the last day of class.

SYLLABUS: JUDGMENT AND CHOICE PROCESSES (OR/SYST 671-01, Spring 2009)

Week 1 (1/27)	Introduction to Course: Thinking and Deciding (H&D, Chap. 1)
Week 2 (2/3)	What is Decision Making & a Framework for Judgment (H&D, Chaps 2 & 3)
Week 3 (2/10)	Judgments from Memory & Anchoring & Adjustment (H&D, Chaps. 4 & 5)
Week 4 (2/17)	Judgments by Similarity, Scenarios, & Explanations (H&D, Chaps. 6 & 7)
Week 5 (2/24)	Thinking about Randomness, Causation, & Uncertainty (H&D, Chaps. 8 & 9)
Week 6 (3/3)	Consequences: Simple Values (H&D, Chap. 10) & Review for Mid-Term
Week 7 (3/10)	No Class (Spring Break)
Week 8 (3/17)	Mid-Term Exam
Week 9 (3/24)	Review Mid-Term & Complex Values and Attitudes (H&D, Ch. 11)
Week 10 (3/31)	Decision Theory (H&D, Chap. 12)
Week 11 (4/7)	Psychological Decision Theory (H&D, Chaps. 13 & 14)
Week 12 (4/14)	Naturalistic Decision Theory & Expertise (Z&K, Chaps. 27, 5, & 17)
Week 13 (4/21)	Expertise continued (Z & K, Chaps. 20, 23, & 30)
Week 14 (4/28)	Metacognition (Z & K, Chaps. 25, 18, & 32)
Week 15 (5/5)	Student Presentations
Week 16 (5/12)	Final Exam (only on material after the mid-term)