**Animal Learning (PSYC 305)**

Mr. John E. Kelsey  
Winter, 2011  
Office Hours: 9-10 T & 9:30-11:30 Th  
Office: Pettengill 359 (6184)  
11:00 MTWF and by appointment

**Texts:**  

**Reserved Reading:** (on back)

**Jan.**  
10 **Introduction to Learning Theory**  
a. History, paradigms, and central issues. (Ch. 1; Olton, 1979; Sniffy, Chs. 1 & 2)

14 **Non-associative Learning: Habituation and Sensitization** (Domjan, 2003, Ch. 2, 35-51; Sniffy, Ch. 8 [19])

**Classical/Pavlovian Conditioning**  
18 a. Learning and adaptation (Ch. 2; Domjan et al., 1998; Siegel et al., 1982)

19 b. Phenomena (Ch. 3, 73-89; Sniffy, Chs. 3 [1-5] & 6 [12, 20, & 13,21])

24 c. Conditioned inhibition (Ch. 3, 89-93; Kearns et al., 2005; Sniffy, Ch. 5 [10 & 11])

28 d. Information value (Ch. 3, 93-102; Gamzu & Williams, 1971; Sniffy, Ch. 4 [6-8])

**Feb.**  
1 e. Theories of conditioning  
1. Quiz  
   2. (1) Rescorla-Wagner (Ch. 4, 103-130; Williams & McDevitt, 2002; Sniffy, Chs. 4 [9])  
   7. (2) Comparator model and others (Ch. 4, 130-144; Sniffy, Ch. 7 [15 & 17])

8 f. Memory, context, extinction, and response modulation/occasion setting (Ch. 5, 145-169; Davis et al., 2005; Schiller et al., 2010)

11* **Exam 1**  
14 g. Nature of CRs (Ch. 5, 169-184; Siegel et al., 1982; Siegel, 2008)

16 **Generality of the Laws of Conditioning** (Ch. 6; Garcia & Koelling, 1966)

**Instrumental/Operant Conditioning**  
28 a. Phenomena, issues and schedules (Ch. 7, 224-239; Sniffy, Chs. 9, 10 [22-27], 12 [31-35], & 14)

**March**  
2* b. Choice and self-control (Ch. 7, 239-251; Johnson et al., 2007)

7 c. Behavioral economics (Ch. 7, 248-251; Jensen et al., 2007)

9 d. Theories of reinforcement (Ch. 7, 251-266)

11 e. Stimulus control  
   1. Generalization and discrimination (Ch. 8, 278-292; Sniffy, Ch. 13 [37-42])  
   14. Concept formation (Ch. 8, 267-278 & 292-298; Wasserman, 1995)

15 f. Memory (Ch. 8, 296-306 & 314-328; Menzel, 1973; Olton, 1979; Pravosudov & Clayton, 2002)

18 g. Timing, serial pattern learning, and counting (Ch. 8, 306-313; Hauser, 2000; Brannon & Terrace, 1998; Miller, 2010)

21 **Exam 2**

22 h. Role of motivation (Ch. 9; Sniffy, Ch. 12 [36])

**A Synthetic Perspective**  
23 a. Avoidance behavior (Ch. 10, 371-389; Mobbs et al., 2007)

25 b. Learned helplessness (Ch. 10, 389-395; Maier & Watkins, 2005; Baratta et al., 2007)

30 c. Misbehavior, superstition, and punishment (Ch. 10, 395-403; Sniffy, Ch. 11 [28-30])

**April**  
1 d. Cognitions (Ch. 10, 403-420; Blaisdell et al., 2006; Dally et al., 2006; Raby et al., 2007)

6 e. Imitation and culture (Zentall, 2003; Whiten et al., 2005; Paukner et al., 2009)  
   Paper Due

8 f. Language learning (Ch. 12, pp. 374-385; Kaminski et al., 2004; Zentall, 2000)

12 **Final Exam: 3:45 PM**

*I will be out of town on February 11 and March 4.*
Tentative Grading Percentages

First Exam 20%
Second Exam 20%
Paper 15%
Quizzes and Class Participation 15%
Final Exam 30%

100%

References
Hauser, M. D. (March/April, 2000). What do animals think about numbers? Scientific American, 144-151.