Instructor: Dr. Michael F Brown  
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michael.brown@villanova.edu  
Office Hours: T, W, Th: 2:00-3:00

Course Requirements:  

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Midterm Exam</td>
<td>30%</td>
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<tr>
<td>Term Paper</td>
<td>30%</td>
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<tr>
<td>Final Exam</td>
<td>30%</td>
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<tr>
<td>Participation</td>
<td>10% (Includes discussion leadership for assigned week)</td>
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This course will be a SEMINAR covering selected topics in Animal Learning and Cognition. The principal readings will come from the primary literature (journal articles and book chapters).

Our classroom time will focus on DISCUSSION of the material, put into context by me. Students are responsible for CAREFULLY reading the assigned material before each class, and being prepared to discuss it in depth. I strongly suggest that you outline the material as you read it, and make a list of questions and issues for the purposes of our classroom discussion. This course is most beneficial (and more fun) when we are successful in running it as a seminar. This requires cooperation and EFFORT on the part of all of us. Note: Your grade for class participation will be based on the quality and quantity of your contributions to class discussions.

The exams are intended to tap your understanding of the conceptual issues. You will be allowed to use a single-side 8.5" X 11" sheet of notes while taking the exams. The second (final) exam will not be cumulative.

We will discuss the term paper during our first meeting. Briefly, it will be a theoretical review of a topic within the boundaries of this course, plus some creative contribution (such as a new theoretical synthesis, a new critique of a theory, or a suggested new experiment to test a previous theory).
### DATE | TOPIC | TENTATIVE READING ASSIGNMENTS
--- | --- | ---
Jan 12 | Introduction to Animal Cognition |  
Jan 26 | History & the Traditional Views of Learning | S1, Watson, 1913; Skinner, 1950; Tolman, 1948 [D1, D2]
Feb 2 | Classical Conditioning: Phenomena | S3, Rescorla, 1988; Siegel, 1975; Bitterman, 1983
Feb 9 | Classical Conditioning: Mechanisms | Rescorla & Wagner, 1972; Denniston, Savastano, & Miller, 2001 pp 65-76; Special Section, *Current Directions in Psychological Science*, (Vol 10, 2001; Dickinson; Killeen; Miller & Escobar; Gallistel & Gibbon) [D4, D5]
Feb 16 | Memory | S6; Clayton & Dickinson, 1998; Clayton, Yu, & Dickinson, 2003 [D12]
Feb 23 | Foraging & Evolutionary Function | S9; Bond & Kamil, 1999; Shettleworth & Westwood, 2002
March 1 | Semester Break |  
March 8 | Midterm Exam |  
March 15 | Spatial Navigation & Spatial Memory | S7; Collett, Collett, Bisch, & Wehner, 1998; Brown, 1992; Brown, in press
March 22 | Timing and Time Perception | S8; Roberts, 1981
March 29 | Counting, Numerosity | Honig, 1992; Hauser et al, 1996; Brannon & Terrace, 1998
April 5 | Concept Learning | Wright, Rivera, Katz, & Bachevalier, 2003; Giurfa, Zhang, Jenett, Menzel, & Srinivasan, 2001
April 12 | (Easter Break) |  
April 19 | Communication & Language | S12 (Optional); Gould & Towne, 1987; Seyfarth, Cheney, & Marler, 1980; Epstein, Lanza, & Skinner, 1980
April 26 | Consciousness and Mental Life | S11; Ristau, 1996; Blumberg & Wasserman, 1995