

## Psychological Research Laboratory PSYBO1F, 1994

Professor G. B. Biederman, Instructor (Rm. S-560A, Tel: 287-7433)  
Teaching Assistants: V. A. Davey (Rm. S-560, Tel: 287-7434)  
J. LeBoutillier (Rm. S150A, Tel: 287-7449)

**Office Hours (Biederman) (PSYB01 only: Wed 2-7pm) S560A**

**Office Hours (Davey) (PSYB01 only: Wed 5-7pm)S560**

**Lecture hours:** Wednesdays 7-9 p.m. Room H216

**Tutorial hours:** Wednesdays 10-11 p.m. Room H216

**Laboratory hours:** TBA, Room S-316 (see Rules for Use of the Computer Lab)

**Required Text:** Biederman, G.B. (1991). Methods and Strategies in Psychological Research.  
Toronto: Canadian Scholars' Press.

### **Lecture Schedule:**

SEPT	21	Introduction
	28	Experimentation in psychological research. Text: Chapter 1.
OCT	5	Non-experimental research designs. Text: Chapter 2.
	12	Conducting field research. Text: Chapter 3.
	19	<b>Exam 1 (25%) <u>Covering material from 9/21-10/12.</u></b>
	26	Psychophysics. Text: Chapter 4.
NOV	2	Conditioning and Control I. Text: Chapter 5, Section 1.
	9	Conditioning and Control II. Text: Chapter 5, Section 2.
	16	Analytical and measurement techniques. Text: Chapter 6.
	23	<b>Exam 2 (25%) <u>Covering material from 10/26-11/16.</u></b>
	30	Current Research Topics. Text TBA
DEC	7	Current Research Topics. Text TBA
		<b>Final Exam (30%) <u>Covering all course material.</u></b>

The purpose of this course is to present principles of scientific method as they apply to research in experimental psychology. The core of this goal lies in the logic of the design of experiments. Topics will include generating research problems, experimental control, subject sampling, scaling and measurement, interpretation and evaluation of results, theory construction, and the communication of scientific knowledge through research report writing. The social nature of experimental work and ethical issues in research will be discussed throughout the spectrum of research that constitutes experimental psychology. Examinations will be of the multiple choice and/or short answer variety.

**PSYB01****Laboratory Schedule:**

- I. REACTION TIME (Purpose, Method) Due date: **October 5 (5%)**
- II. REACTION TIME (Results, Discussion) Due date: **November 2 (5%)**  
Psychophysics (Voluntary data report for extra credit Due date TBA)  
Operant conditioning (Voluntary report for extra credit Due date TBA)  
Stroop effect (Voluntary data report for extra credit Due date TBA)
- III. CLASS ORIGINAL (Complete Report) Due date: **December 7 (10%)**

The laboratory in PSYB01 uses computers, in a "user-friendly" setting, and permits you to work at your own pace as much as possible. The laboratory assignments, procedures and requirements will be fully discussed in lecture. "Write-ups" of laboratory work will be required in gradually increasing complexity and length, but we will give you very direct instruction and assistance.

**Laboratory Rules for PSYB01 Students:**

The laboratory in PSYB01 Room S316 will be open 24 hours per day to registered students in PSYB01. We expect you to work independently and responsibly and to immediately report any violations of the rules to your instructor or to your teaching assistant for your own safety and security. Your anonymity will be respected.

RULES TO BE ADDED TO COURSE OUTLINE