

**Psychology Department – Graduate Course Descriptions
Fall 2011**

**Ψ 205A-B [3 units]
Psychological Statistics and Data Analysis
Professor OMAN, D W
CCN: 74868
TuTh 2-330P, 2129 TOLMAN**

Course Overview:

Psychology 205A and 205B comprise a two-semester series covering intermediate and some advanced statistical methods used in psychological research. **It is strongly recommended that students take both 205A and 205B. Entry into 205B without taking 205A will only be possible by prior arrangement.**

PSYCH 205A will cover analysis of variance (ANOVA) including between subjects, within subjects, mixed designs, and designs with random factors. Analysis of variance is the most commonly used analysis method for experimental data in the social sciences. In this course, students will learn the theoretical rationale and methods to compute analysis of variance by hand and with a computer.

Course Objectives (205A):

At the end of the course, students are expected to:

1. Compute a variety of ANOVA designs by hand;
2. Write computer programs to analyze a variety of ANOVA designs;
3. Understand the theoretical rationales for ANOVA;
4. Identify ANOVA designs from description of experiments;
5. Interpret two-way and higher-way interactions;
6. Conduct statistical analysis to identify the source of statistical significance in a multiple group design;
7. Understand how repeated measures and random effects are incorporated in ANOVA;
8. Know where to look for information on any ANOVA design that you may encounter in your research.

Required Readings:

**Textbook: G. Keppel and T. D. Wickens: Design and Analysis: A
Researcher's Handbook (4th Edition, Prentice-Hall, 2004).**

Additional **required** readings: selected primary-source readings (journal articles and reviews) will be posted on the course website at Bspace.berkeley.edu (under the section "Resources"). These readings supplement the textbook.

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Course Requirements:

1. Exams: There will be three midterm exams and one final exam. The midterm exams will only explicitly cover material since the previous exam (although much of the material is intrinsically cumulative). The final exam covers all of this semester's material.
2. Discussion: Students are expected to participate in class discussions and ask for clarification in lectures and lab sessions.
3. Homework: There will be approximately 10 homework problem sets depending on materials covered. The lowest homework score will be dropped.

Ψ 210A

Proseminar: Cognition, Brain, and Behavior [3 units]

Professor Richard Ivry

CCN: 74873

W 12-3P, 3105 TOLMAN

This course will cover investigations of the neurological basis of cognition. Material covered will include the study of brain injured patients, neurophysiological research in animals, and the study of normal cognitive processes in humans with non-invasive behavioral and physiological techniques (e.g., fMRI, ERP, MEG, TMS). Topics to be covered include methods, perception, attention, language, motor control, memory, emotion, and executive functions. Students will be expected to participate in weekly discussions and complete a writing assignment, likely to be in the form of a grant proposal.

Ψ 214

Functional MRI Methods [3 units]

Professor Mark D'Esposito

CCN: 74877

M 1-4P, G75 TOLMAN

This course will provide an overview of functional MRI methodology. Topics to be covered include the basic physics of fMRI, the physiological basis of BOLD fMRI signal, the spatial and temporal resolution of fMRI, issues in experimental design, and statistical techniques used for analyzing fMRI data. The class will review published studies as well as ongoing research projects at Berkeley that address questions regarding these topics.

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Ψ 230A

Proseminar: Clinical Psychology [3 units]

Professor Allison Harvey

CCN:

W 9-12P, 2129 TOLMAN

Psychology 230 is required for first-year students in the Clinical Science program at Berkeley; a limited number of other graduate students may take the course with permission of the instructor. The nature of clinical science is undergoing intensive scrutiny at this point in history; change is certain for the field. It is therefore an exciting and important time to be entering this fascinating multidisciplinary field of study. The purpose of Psychology 230 is to give an introduction to core issues in adult and developmental psychopathology. Each week, there are several readings, both primary source articles and review articles or chapter.

Ψ 236 P 001

Specialty Clinic [3 units]

Professor Mason

CCN:

W 10-12P, 2225 TOLMAN

The need for empirically supported mental health treatments is greater than ever, and the debate about what constitutes such treatments is hotter than ever. The “common factors” approach to psychotherapy research assesses processes and mechanisms common to ALL types of psychotherapy as a means to develop empirically supported treatments that can broadly applied. Next year, The Community Clinic, with Laura Mason, will provide a range of services to clients of all ages and all diagnostic categories, with a goal of designing ways of empirically measuring common factors in psychotherapy.

1. Clinical Services Component: The Community Clinic will continue to offer the full range of services to the community, beginning as usual in the fall semester. Supervisors in the Community Clinic will represent diverse theoretical orientations (cognitive-behavioral, psychodynamic-interpersonal, family systems, integrative, developmental-play therapy), supervising work with adults, couples, families, or children depending on that supervisor’s expertise and orientation.
2. Research and Design Component: We will review the empirical and theoretical literature on psychotherapy research, paying particular attention to “common factors” such as the therapeutic relationship, issues of client-therapist matching, the therapeutic alliance, empathic attunement, goal consensus between therapist and client, and the placebo effect. Together

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we will choose a subset of the common factors which seem most compelling or promising. Our goals would then include: a) developing and refining empirical measures of the common factors we choose; b) developing hypotheses about the relationships between these factors and therapy outcome; and c) developing hypotheses about the cultural adaptation of these factors and their measurement.

Ψ 236 P 002
Specialty Clinic [3 units]
Professor Robert Levenson
CCN:
Tu 12-2P, 2129 TOLMAN

A rich empirical/clinical literature underscores the strong links between the quality of intimate relationships and mental health, physical health, and general well-being. Because of this, couples are an important focus of clinical research and intervention.

The Couples Clinic was the first of the Clinical Science program's specialty clinics, initially offered by Carolyn, Phil and Bob in Fall, 2000, and repeated a number of times prior to the Cowans' retirement in 2005. For 2011-2012, the Cowans will be joining Bob again to co-teach and co-supervise the Couples Clinic. The general focus of the Clinic will be on interventions for distressed couples aimed at promoting relationship satisfaction and stability. The Couples Clinic provides a comprehensive training experience, including:

- Reviewing current theories and research on couple relationships
- Reviewing current theories and research on couples therapy
- Fine-tuning the problems targeted for intervention
- Designing an evidence-based time-limited intervention
- Marketing the intervention
- Designing a treatment assessment
- Delivering the treatment under supervision
- Assessing the efficacy of the treatment
- Preparing a report on the training and intervention

Interns participate in all aspects of this process and, thus, gain experience with the steps necessary to develop, deliver, and evaluate new treatments in the future.

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Ψ 237E

Intervention: Clinical Decision Making [3 units]

Professor Mason

CCN:

M 9-11A, 2225 TOLMAN

Ψ 237F

Intervention: Couples Therapy [1 units]

Ψ 237G

Intervention: Specialty Clinics [1-2 units]

Psychological intervention with and evaluation of specially designated populations.

Ψ 250A

Proseminar: Social/Personality Psychology

Professor Maslach Zimbardo

CCN: 74994

Tu 1-4P, 4131 TOLMAN

In this course, you will be introduced to faculty in the social/personality and related areas (e.g., Haas, School of Public Policy). We will discuss the research program of each faculty member, as well as his/her professional background.

Ψ 290B 001

Biological [2 units]

Professor Lucia Jacobs

CCN: 75003

Th 2-4P, 3108 TOLMAN

Ψ 290B 002

Biological [2 units]

Professor Lance Kriegsfeld

CCN: 75006

F 2-4P, 3105 Tolman

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Ψ 290B 003
Biological [2 units]
Professor Arthur Shimamura
CCN: 75009
W 12-2P, G75 TOLMAN

Ψ 290H 001
Developmental [2 units]
Professor Fei Xu
CCN: 75021
Tu 1-330P, G75 TOLMAN

Ψ 290I 001
**Personality: Designing Courses and Course Syllabi to Enhance
Motivation [2 units]**
Professor Oliver John
CCN: 75027

Ψ 290I 002
Personality [2 units]
Professor Martin Covington
CCN: 75028

Ψ 290J 001
Current Topics in Culture and Cognition [2 units]
Professor Kaiping Peng
W 1-3P, 2129 TOLMAN
CCN: 75029

This course will deal with issues in social cognition from a cultural psychological perspective. We will discuss relationships between culture and some popular topics in social psychology, The basic topics we are going to cover in this semester are: culture and self (dialectical self knowledge, self verification, subjective well-being), culture and emotions, culture and human relations, culture and judgment (hypothesis testing, choice and regret, prediction, moral judgments), culture and reasoning (attribution, intentionality, responsibility, dialectical thinking, creative problem solving), identity effect (cultural identity and its consequences), and methodological issues of cross-cultural study (priming cultures, implicit measurement of cultures, validity of cross-cultural contrast).

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Ψ 290J 002

Self and Identity: Contemporary Approaches and Issues [2 units]

Professor Serena Chen

Tu 10-12P, G75 TOLMAN

CCN: 75030

In this seminar, we will read and discuss a wide range of contemporary articles on the self and identity, touching on a number of "hot" issues and questions. Although most of the reading will be empirical articles, there may be some review articles and chapters included in the reading list. The format of the seminar will be largely discussion-based, with a student helping to lead the discussion each week, and other students submitting thought questions/comments to facilitate the discussion leader's task. Interested students can contact the instructor for further information in early August. Non-psychology students should contact the instructor to discuss enrollment in this seminar.

Ψ 290J 004

Foundations of Affective Science [2 units]

Professor Dacher Keltner

Tu 11-2P, 5101 TOLMAN

CCN: 75035

This course will examine the foundations of Affective Science. We first will study the two central theoretical approaches to the study of emotion: evolutionary and cultural approaches. We then will consider several emotion-related systems, including facial expression, autonomic nervous system activity, and central nervous system activity. We will conclude by studying special topics in affective science, including development, relationships, individual differences, and psychopathology.

Ψ 290Q

Probabilistic Models of Cognition [2 units]

Professor Thomas Griffiths

TuTh 2-330P, 3105 TOLMAN

CCN: 75039

This seminar explores parallels between human cognition and ideas in probability and statistics, with an emphasis on statistical machine learning. Minds and machines face similar computational problems, meaning that we can develop new hypotheses about human cognition by seeing how those problems are solved in statistics and find new challenges for machine learning by studying human

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cognition. Topics will include causal learning, clustering, Markov chain Monte Carlo, function learning, and randomness. Students will complete an independent research project related to computational modeling of human cognition.

Ψ 292

Introduction to the Profession of Psychology [2 units]

Professor Richard Ivry

Th 9-11A, 3105 TOLMAN

CCN: 75054

This is a required 2-unit course for (and restricted to) all first-year students in the graduate program in Psychology. Several weeks of professional and ethical issues in the field, followed by guest lectures from various faculty members in the department, emphasizing historical trends in the field and current research programs.

Ψ 294

Current Issues Colloquium Series [1 units]

Professor Ervin Hafter

CCN: 75057

M 4-6P, 3105 TOLMAN

Ψ 300

Teaching Psychology [2 units]

Professor David Whitney and Professor Matthew Walker

CCN: 75303

F 930-1130A, 3105 TOLMAN

This course will provide training in a variety of teaching techniques, will review relevant pedagogical issues, and will assist graduate students in mastering their initial teaching experiences.