

# PSYCHOLOGY DEPARTMENT

## FALL 2009

### Graduate Course Descriptions

Rooms and times on this list SUPERSEDE  
the printed course schedule.

Course call numbers are in brackets { }.

If you are not a Psychology graduate student, instructor's consent is required to enroll in **ANY** of these courses. Please see individual instructors **before** enrolling in their courses.

#### GENERAL

**PSYC 5541**                      **SPECIAL TOPICS IN PSYC- JUVENILE  
DELINQUENCY**  
**Dr. Blechman**    **001**                      **5:00-6:15**                      **TR**    **MUEN D156**  
{83852}

**PSYC 5541**                      **SPECIAL TOPICS IN PSYC- COMPUTERS IN  
PSYCH.**  
**Dr. McClelland**    **002**                      **11:00-12:40**                      **T**    **MUEN E311**  
{81176}

This seminar will focus on data visualization with practical use of modern tools for creating (a) high-quality ("far beyond bar graphs") publication-quality graphics, (b) interactive visualizations for understanding and seeing patterns in complex, high-dimensional datasets, and (c) dynamic graphical representations for use in presentations. Tools will include Mathematica, R, GGobi, and Processing (a friendly data visualization interface to Java). Roughly the first half of the semester will be active lectures (the class is taught in a computer lab so that students may try things as they are presented) and the second half of the class will be work on projects, probably in small groups, of interest to individual students. Contact [gary.mcclelland@colorado.edu](mailto:gary.mcclelland@colorado.edu) or 303-641-3629 for additional information.

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**PSYC 5741**                      **GENERAL STATISTICS**  
**Drs. Judd & McClelland**    **100**                      **3:30-4:45**                      **TR**    **MUEN E113**  
{81181}                      **L101**                      **1:30-3:25**                      **R**    **MUEN E311**  
{81182}                      **L102**                      **11:00-12:50**                      **R**    **MUEN E311**

# NEUROSCIENCE

## NRSC 5100 INTRO TO NEUROSCIENCE I

**Dr. Barth**

<b>{79986}</b>	<b>801</b>	<b>2 credits-need only attend Friday class</b>		
	<b>820</b>	<b>5 credits (must attend Psyc 5052 also)</b>		
		<b>10:00-11:40</b>	<b>F</b>	<b>MUEN D156</b>
		<b>9:30-10:45</b>	<b>TR</b>	<b>RAMY N1B23</b>
<b>{79788}</b>	<b>L821</b>	<b>12:00-1:50</b>	<b>F</b>	<b>MUEN E0022</b>
<b>{79789}</b>	<b>L822</b>	<b>2:00-3:50</b>	<b>F</b>	<b>MUEN E0022</b>
<b>{79790}</b>	<b>L823</b>	<b>12:00-1:50</b>	<b>W</b>	<b>MUEN E0022</b>
<b>{79791}</b>	<b>L824</b>	<b>2:00-3:50</b>	<b>W</b>	<b>MUEN E0022</b>

This course is designed to provide an intensive introduction to the principles of neuroscience. It initially covers the detailed neuroanatomy of human forebrain, midbrain, hindbrain and spinal cord. This is followed by neurophysiology with a concentration on the electrophysiology of neural systems. The basics of neuroanatomy and neurophysiology are then applied to an examination of the structure and function of visual, auditory, and sensorimotor systems in animal and man. All beginning graduate students enrolled in NRSC 5100 for 5 credit hours must simultaneously attend all lectures for Behavioral Neuroscience (PSYC 5052), although not officially enroll in it. This combination permits a presentation of the material balanced between lecture and seminar formats. Given the time commitments imposed by the breadth and depth of the subject matter, students are advised to take a minimum number of credit hours during the semester they enroll in this course. On rare occasions, more advanced students entering the program may petition to enroll only in the 2 credit hour seminar portion of NRSC 5100. Any students considering petitioning for the 2 credit seminar section should contact Dr. Daniel Barth (MUEN E420, 492-0359, [dbarth@psych.colorado.edu](mailto:dbarth@psych.colorado.edu)) prior to enrollment.

All students should meet with Dr. Daniel Barth (MUEN E420, 492-0359, [dbarth@psych.colorado.edu](mailto:dbarth@psych.colorado.edu)) prior to enrollment.

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## NRSC 6100 ADVANCES IN NEUROSCIENCE

**Dr. Campeau**

<b>{79792}</b>	<b>001</b>	<b>3:30-5:15</b>	<b>T</b>	<b>MUEN E214</b>
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This course is intended to supplement and enhance the learning experience derived from attending the Interdepartmental Neuroscience Seminar Series on the University of Boulder Campus. The week prior to each Seminar Talk we will discuss research articles and other background information relevant to the upcoming Talk. Since Seminar Talks are scheduled every other week from 4-5

PM on Tuesdays, the class will meet on alternate weeks from 3-5PM on Tuesdays. For most out of town speakers there will be additional opportunities for students to meet with the seminar speaker during their visit. Students will be expected to attend each Seminar Talk as well as the class meetings. This course should provide an excellent opportunity to become more familiar with a wide range of research methodologies and topics of investigation for Neuroscientists both locally and nationally.

## BIOLOGICAL

	<b>PSYC 5032</b>	<b>NEUROBIOLOGY OF LEARNING AND MEMORY</b>	
<b>Dr. Rudy</b> {83839}	<b>001</b>	<b>9:30-10:45 TR</b>	<b>MUEN E417</b>

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	<b>PSYC 5052</b>	<b>BEHAVIORAL NEUROSCIENCE</b>		
<b>Dr. Barth</b> {83841}	<b>100</b>	<b>9:30-10:45</b>	<b>TR</b>	<b>RAMY N1B23</b>
{83842}	<b>L101</b>	<b>12:00-1:50</b>	<b>F</b>	<b>MUEN E0022</b>
{83843}	<b>L102</b>	<b>2:00-3:50</b>	<b>F</b>	<b>MUEN E0022</b>
{83844}	<b>L103</b>	<b>12:00-1:50</b>	<b>W</b>	<b>MUEN E0022</b>
	<b>L104</b>	<b>2:00-3:50</b>	<b>W</b>	<b>MUEN E0022</b>

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	<b>PSYC 5112</b>	<b>STATISTICAL GENETICS</b>		
<b>Dr. McQueen</b> {81173}	<b>801</b>	<b>3:00-5:30</b>	<b>W</b>	<b>MUEN E311</b>

The focus of this course will be on the methods for mapping complex disease genes in both population-based and family-based samples. Topics will include both linkage and association analyses of qualitative and quantitative phenotypes, with an emphasis on their application to empirical data using available computer software. Students will be exposed to the latest statistical methodology and computational resources for mapping genes underlying complex traits. They will also read and evaluate current statistical human genetics literature.

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	<b>PSYC 7215</b>	<b>SEMINAR: CURRENT ISSUES IN NEURAL PLASTICITY &amp; MEMORY</b>		
<b>Dr. Rudy</b> {81316}	<b>002</b>	<b>TBA</b>		

This seminar will be broadly organized around the topic of neural plasticity and memory and will be tailored to the interests of the students. Potential topics include: (a) plasticity and addiction, (b) glial regulation of plasticity, (c) regulation of dendritic spine morphology. (d) aging and plasticity. (e) reconsolidation, (g) what's new in memory modulation, (h) epigenetics, and (i) neuronal excitability. The exact topics will be determined by what you want to learn about. This class will meet once a week.

## CLINICAL

**PSYC 5433 ADULT PSYCHOPATHOLOGY**  
**TBA 800 9:30-10:45 TR MUEN D318**

**Course currently on hold. Contact Shelley for additional information.**

Adult Psychopathology is an overview of the major classes of abnormal behavior (e.g., anxiety disorders, mood disorders, personality disorders, psychotic disorders), with an emphasis on phenomenology, epidemiology, and etiology of syndromes. The course will be conducted as a seminar, with a flexible balance of lecture and discussion.

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**PSYC 5453 DEVELOPMENTAL PSYCHOPATHOLOGY**  
**Dr. Wilcutt 001 11:30-2:00 T MUEN D318**  
**{85042}**

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**PSYC 7663 INTEL ASSESSMENT LAB**  
**Dr. Richardson 801 1:00-3:00 W MUEN D318**  
**{81319}**

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**PSYC 7683 INTELLECTUAL ASSESSMENT, WITH PRACTICUM, IN CLINICAL PSYCH**  
**Dr. Richardson 001 10:00-12:30 W MUEN D318**  
**{81321}**

This course is restricted to clinical psychology graduate students in their second and third year of training. This course will provide a brief overview of adult intellectual assessment followed by practicum training on the Wechsler with both undergraduate volunteers as well as Rainy clinic cases. The format of the course will include lecture and discussion as well as practical hands-on training in the administration and interpretation of the WAIS-III. This is a 4 credit hour course.

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**PSYC 7703 HISTORY, ETHICS AND PROFESSIONAL ISSUES IN CLINICAL PSYCHOLOGY**  
**Dr. Weatherley 001 11:00-1:30 T MUEN D318**  
**{81322}**

This course will provide 1) an historical base for the current research and applied trends in clinical psychology, 2) a review of ethical principles and practice applying them, and 3) an examination of current professional issues.

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**PSYC 7713 CLINICAL PRACTICUM**  
**Dr. Whisman 800 TBA**  
**Dr. Brosse 801 TBA**  
**Dr. Dimidjian 802 TBA**  
**(see Shelley to enroll in this practicum)**

## COGNITIVE/EXPERIMENTAL

	<b>PSYC 5145</b>	<b>COGNITIVE PSYCHOLOGY</b>		
<b>Dr. Blackmon</b>	<b>100</b>	<b>2:00-3:15</b>	<b>TR</b>	<b>MUEN D156</b>
<b>{83846}</b>	<b>L101</b>	<b>9:00-10:50</b>	<b>W</b>	<b>MUEN E0014</b>
<b>{83847}</b>	<b>L102</b>	<b>11:00-12:50</b>	<b>W</b>	<b>MUEN E0014</b>

**Please note: Dr. Blackmon's section of section of Cognitive Psychology is the only section available for graduate credit.**

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	<b>PSYC 5685</b>	<b>PROSEM-RESEARCH METHODS</b>		
<b>Dr. Healy</b>	<b>001</b>	<b>1:00-2:50</b>	<b>W</b>	<b>MUEN D156</b>
<b>{81178}</b>				

This is one module of the six-module cognitive psychology proseminar sequence that all the graduate students in the Cognitive Psychology program are required to take. It is also available to graduate students in other programs and other cognitive science departments. The main topic of this module is research methods in cognitive psychology, with an emphasis on experimental methods. This proseminar is designed primarily to help new graduate students get started with their first-year research project and emphasizes the skills and knowledge necessary for them to (a) critically evaluate existing research and (b) design, conduct, analyze, and write up experimental studies of their own in cognitive psychology.

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	<b>PSYC 5665</b>	<b>PROSEM-LEARNING AND MEMORY</b>		
<b>Dr. Curran</b>	<b>002</b>	<b>1:00-2:50</b>	<b>M</b>	<b>MUEN D156</b>
<b>{85361}</b>				

This is one module of the six-module cognitive psychology proseminar sequence that all the graduate students in the Cognitive Psychology program are required to take. It is also available to graduate students in other programs and departments. This proseminar provides an advanced and intensive survey of research and theory related to human learning and memory. Cognitive and cognitive neuroscience perspectives will be considered. Prereq. graduate standing in psychology or instructor consent.

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	<b>PSYC 7215</b>	<b>Sem: Individual Differences in Executive Functions</b>		
<b>Dr. Miyake</b>	<b>001</b>	<b>12:30-3:00</b>	<b>T</b>	<b>MUEN D424</b>
<b>(85422)</b>				

Seminar: Individual Differences in Executive Functions: Basic Research and Applications to Different Domains of Psychology

This seminar will focus on individual differences in executive functions --- a set of control processes that regulate one's thought and action --- and their relations to complex cognition (e.g., intelligence) and various socially and clinically important self-regulatory behaviors (e.g., attention problems at school, substance use, dieting, emotion regulation, expression and control of social stereotypes and prejudice). The seminar will examine individual differences in executive functions and their origins (e.g., genetic, environmental) from broad, interdisciplinary perspectives, reviewing not only basic research and theories in cognitive psychology and cognitive neuroscience, but also their applications and extensions to various subdisciplines in psychology, including life-span development, behavioral genetics, social, health, and clinical psychology. Specific topics that will be covered in the seminar will depend on the interests of the seminar participants.

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**PSYC 7215            Sem: Current Issues in Interdisciplinary Approaches to Executive Function**

**Dr. Banich            004            1:00-3:30            R            MUEN D430  
(85447)**

This course will involve an examination of current issues in executive function taken from a multi-disciplinary perspective involving at least three levels of analysis: the neurobiological (genes, brain systems), psychological, and computational. Work from seminal scholars in the field will be discussed in preparation for their visit at a conference on campus in mid-January 2010. In addition, research relevant to the CU-based NIMH Interdisciplinary Center on Executive Function and Dysfunction will be examined. The class will involve presentations of theory and original research as well as discussion.

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**PSYC 7415            COG SCI RSRCH PRACTICUM 1**  
**Dr. Martha Palmer (Ling)    001            10:00-12:00    R    MUEN D424  
{83853}**

Cross reference to CSCI 7412, LING 7415, EDUC 6506. Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint Ph.D. in an approved core discipline and cognitive science. Research projects will integrate at least two areas within the cognitive sciences, e.g., Psychology, Computer Science, Linguistics, Education. This course is the first semester of a two-semester course required for the joint Ph.D. in cognitive science. Students will need to get commitments from two mentors for their project.

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**PSYC 7425            COG SCI RSRCH PRACTICUM 2**  
**Dr. Martha Palmer (Ling)    001            10:00-12:00    R    MUEN D424  
{83855}**

Cross reference to CSCI 7422, LING 7425, EDUC 6516. Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint Ph.D. in an approved core discipline and cognitive science. Research projects will integrate at least two areas within the cognitive sciences, e.g., Psychology, Computer Science,

Linguistics, Education. This is the second semester of a two-semester course required for the joint Ph.D. in cognitive science. Students will need to get commitments from two mentors for their project.

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<b>PSYC 7775</b>	<b>TOPICS IN COGNITIVE SCIENCE</b>			
<b>Dr. Martha Palmer (Ling)</b>	<b>001</b>	<b>12:00-2:00</b>	<b>F</b>	<b>MUEN D430</b>
<b>{83857}</b>				

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in ICS Cognitive Science Academic Programs. Same as LING 7775, CSCI 7772, EDUC 7775 and SLHS 7775.

## SOCIAL

<b>PSYC 5606</b>	<b>PROSEM-SOC/PERSON PSYC</b>			
<b>TBA</b>	<b>801</b>	<b>1:00-3:30</b>	<b>W</b>	<b>MUEN E214</b>
<b>{81177}</b>				

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<b>PSYC 6606</b>	<b>PROFESSIONAL ISSUES</b>			
<b>Dr. Park</b>	<b>001</b>	<b>12:00-12:50</b>	<b>W</b>	<b>MUEN E214</b>
<b>{81185}</b>				

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<b>PSYC 7536</b>	<b>STEREOTYPING AND PREJUDICE</b>			
<b>Dr. Blair</b>	<b>801</b>	<b>2:00-3:40</b>	<b>M</b>	<b>MUEN E214</b>
<b>{81318}</b>				

This advanced graduate seminar is designed for students who already possess expertise in basic social psychological theory and methods. Topics will include the formation, representation, function and change of stereotypes and prejudice. Readings will be primary-source scientific articles and discussions will focus on the target phenomena as understood from empirical research.