PSYCHOLOGY DEPARTMENT  
FALL 2017  
Graduate Course Descriptions

Rooms on this list are subject to change. Rooms and times may be updated in myCUinfo and supercede this list.  
If you are not a Psychology graduate student, instructor's consent is required to enroll in ANY of these courses. Please contact individual instructors before enrolling in their courses.

GENERAL

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor(s)</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
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<tbody>
<tr>
<td>PSYC 5741</td>
<td>GENERAL STATISTICS</td>
<td>Drs. Judd and Correll</td>
<td>100</td>
<td>3:30-4:45</td>
<td>TR</td>
<td>MUEN E113</td>
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<td></td>
<td></td>
<td></td>
<td>L101</td>
<td>1:00-2:50</td>
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<td>MUEN E311</td>
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<td></td>
<td>L102</td>
<td>11:00-12:50</td>
<td>R</td>
<td>MUEN E311</td>
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<tr>
<th>Course</th>
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<th>Location</th>
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<tbody>
<tr>
<td>PSYC 6831</td>
<td>INTERDISCIPLINARY SOCIAL SCIENCE PROFESSIONAL SOCIALIZATION</td>
<td>Dr. Mollborn (Sociology)</td>
<td>001</td>
<td>11:00-12:00</td>
<td>F</td>
<td>IBS 155B</td>
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<td></td>
<td>Trains graduate students and provides professional socialization in</td>
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<tr>
<td></td>
<td>interdisciplinary social science research. Open to all interested</td>
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<td></td>
<td>students, with programming provided by the Institute of Behavioral</td>
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<td>Science. Sessions include IBS-housed colloquia and workshops in</td>
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<td>professional socialization, technological tools, interdisciplinary</td>
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<td>research, ethics, grant writing, etc. Students workshop and submit a</td>
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<td>research paper.</td>
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BIOLOGICAL

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<tr>
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<th>Instructor(s)</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>PSYC 5052</td>
<td>BEHAVIORAL NEUROSCIENCE</td>
<td>Dr. Barth</td>
<td>100</td>
<td>9:30-10:45</td>
<td>TR</td>
<td>HUMN 1B80</td>
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<td>L101</td>
<td>12:00-1:50</td>
<td>F</td>
<td>MUEN E0022</td>
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<td></td>
<td>L102</td>
<td>2:00-3:50</td>
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<td>MUEN E0022</td>
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<td></td>
<td>L103</td>
<td>12:00-1:50</td>
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<td>MUEN E0022</td>
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<td></td>
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<td></td>
<td>L104</td>
<td>2:00-3:50</td>
<td>W</td>
<td>MUEN E0022</td>
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Same as NRSC 5052

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>PSYC 5102</td>
<td>BEHAVIORAL GENETICS</td>
<td>Dr. Carey</td>
<td>001</td>
<td>2:00-3:15</td>
<td>TR</td>
<td>MUEN E317</td>
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This is an introductory course on behavioral genetics for graduate students. The course objectives are: 1. understand how basic principles of genetics can be used in the study of behavior, 2. learn about the variety of methods that can be used to determine how genes and environment influence behavior, and 3. learn from recent examples of studies using...
these methods. Topics covered include a review of genetics, twin and adoption studies, univariate and multivariate behavior genetic studies, gene-environment correlation, gene-environment interaction, environmental influences, linkage, and association. This course is required for students in the behavior genetics program and students completing Institute for Behavioral Genetics' interdisciplinary certificate program. Other students who are interested in the course objectives are encouraged to enroll. There is not a prerequisite for this course.

**PSYC 7102**  
**Genetics and Substance Use Disorder**  
**Dr. Stallings**  
003  
10:00-12:00  
**T**  
**IBG 210**

This graduate-level course will be presented in a seminar format. Each class session a student will be assigned to lead the discussion of an important current paper in the topic area assigned by the instructor. This will be followed by general discussion/lecture by the instructor or a guest lecturer on related material.

Topics will include the epidemiology, clinical aspects, neurobiology and etiology of substance abuse and dependence. There will be a focus on nicotine, alcohol, marijuana, opioids, and stimulants including cocaine. However, additional topics will include polysubstance abuse, comorbid psychopathology, and developmental and gender issues. Course evaluations will be based on class participation and a term paper (10-20 page paper on a topic approved by the instructor).

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**PSYC 7102**  
**Concepts in Behavior Genetics: Some benchmark papers for BG**  
**Dr. Hewitt**  
100  
2:00-4:00  
**W**  
**IBG 210**

This seminar course will be based on readings and small group presentations and discussions of some benchmark papers in behavior genetics. The emphasis will be on quantitative and methodological papers. Some papers are primarily of historical interest that began a line of inquiry or established a paradigm, some are key methodological papers, some are empirical review papers, and a few are recent landmark papers. The emphasis is on human behavior genetics.

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**CLINICAL**

**PSYC 6603**  
**PROFESSIONAL ISSUES IN CLINICAL PSYCHOLOGY**  
**Willcutt**  
801  
1:00-1:50  
**M**  
**MUEN E214**

Covers a range of topics important for professional development in clinical psychology, including preparation and delivery of research presentations, preparation of grant proposals/manuscripts and practicum experience (i.e., interviewing and assessment, treatment planning, intervention and documentation). Intended to prepare students for careers as research scientists and clinicians.

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**PSYC 7663**  
**INTELLECTUAL ASSESSMENT LAB**  
**Dr. Richardson**  
801  
See description of PSYC 7683.
PSYC 7683  INTELLECTUAL ASSESSMENT
Dr. Richardson
801  9:00-11:30  M  MUEN D334
This practicum is restricted to clinical psychology graduate students. Individuals in their 2nd year of training receive didactics in adult intellectual and cognitive assessment followed by practicum training on the Wechsler and neuropsychological tests with both undergraduate volunteers as well as Brain Behavior 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-IV and other commonly used cognitive tests. Individuals in their 3rd year and beyond who have completed the didactics portion can take the practicum for 1-2 credit hours to continue to be able to complete supervised assessments and integrative report-writing in the BBC.

PSYC 7693  PERSONALITY MEASUREMENT
Dr. Arch
801  1:00-3:30  W  MUEN D334
Covers theory and basic applications of psychological assessment, with an emphasis on measurement theory and assessment of psychopathology and personality.

PSYC 7713  CLINICAL PRACTICUM
TBD
801  TBA
TBD
802  TBA
TBD
802  TBA
(contact Amanda Meyer to enroll in practicum)

PSYC 7793  CHILD/ADOLESCENT PRACTICUM
Dr. Chhabildas
801  12:00-2:30  R  MUEN D216
(contact Amanda Meyer to enroll in in practicum)

Allows students who have already learned adult assessment measures to broaden their knowledge and skills in order to complete psychoeducational evaluations with children. The course covers the background of common childhood disorders, general testing strategies with children, and specific test administration. Prereq., PSYC 7683.

COGNITIVE
PSYC 5685  PROSEM- RESEARCH METHODS
Dr. Colunga
001  10:00-11:40  F  MUEN E317
Main topic is research methods in cognitive psychology, with an emphasis on experimental methods. Students will gain the skills and knowledge necessary to A) critically evaluate existing research and B) design, conduct, analyze, and write up their own experimental studies. Required for graduate students in Cognitive Psychology; graduate students in all programs and advanced undergraduates welcome with instructor consent.

**PSYC 5835**  
**THINKING PROSEMINAR**  
**Dr. Jones**  
Rob 10:00-11:40  
M  
MUEN E317  
Provides beginning Ph.D. students with a basic introduction to research on complex human cognition, including reasoning, problem solving, decision making, analogy, concept learning, and knowledge representation. Will include consideration of theoretical, behavioral, and cognitive neuroscience perspectives. One of six proseminar modules required of students in the Cognitive Psychology Ph.D. program. Graduate students in all programs and advanced undergraduates welcome with instructor consent.

**PSYC 6605**  
**COGNITIVE PSYC RESEARCH UPDATE**  
**Dr. Curran**  
001  
12:00-1:00  
M  
ICS  
Provides summaries of current research by graduate students and faculty members in the Cognitive Psychology program in the Department of Psychology and Neuroscience. Professional Development issues relevant to cognitive psychologists will also be discussed. Graduate students in all programs and advanced undergraduates welcome with instructor consent.

**PSYC 7215**  
**MATHEMATICAL MODELS COGNITION**  
**Dr. Jones**  
801  
10:00-12:30  
W  
MUEN E317  
Mathematical models constitute a middle ground between abstract theorizing and neurological grounding. They aim to capture the essential principles of cognition in a way that is both rigorous and compact. A well-constructed model can facilitate deep insight into both the goals of the cognitive system and how they are carried out. This course will cover a variety of mathematical methods for characterizing cognition, including learning, memory, knowledge representation, decision-making, and executive control. Specific topics will depend in part on the interests of the group, but may include: Bayesian modeling, diffusion models of decision-making and reaction time, perceptual scaling, classification algorithms from machine learning (e.g., kernel regression, support vector machines), reinforcement learning, dynamic systems, game theory, and mathematical properties of idealized neural networks (e.g., Hopfield networks, Boltzmann machines). We will discuss these methods from theoretical (domain-specific), technical (e.g., model-selection), and philosophical perspectives (e.g., the role of formal models in science, levels of explanation, and rational versus empirical analysis).

**PSYC 7415**  
**COG SCI RSRCH PRACTICUM 1**  
ICS  
001  
9:00-11:30  
F  
ICS  
Same as LING 7415, CSCI 7412, PHIL 7415, and 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 and 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.

**PSYC 7425**  **COG SCI RSRCH PRACTICUM 2**

ICS

801  9:00-11:30  F  ICS

Same as LING 7425, CSCI 7422, PHIL 7425, and 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 and 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.

**PSYC 7775**  **TOPICS IN COGNITIVE SCIENCE**

Dr. Sumner

800  12:00-2:00  F  ICS

Readings 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, SLHS 7775, and PHIL 7810

**SOCIAL**

**PSYC 5606**  **PROSEM-SOC/PERSON PSYC**

Drs. Park, Ito and Loersch

801  1:00-3:30  W  MUEN E214

This proseminar is team taught by three social psychology faculty members. This Fall the faculty will include Drs. Bernadette Park, Tiffany Ito, and Chris Loersch.

Dr. Park will examine five classic theories in social psychology. These include: impression formation work (Asch; Anderson), attribution theory (Kelly), cognitive dissonance theory (Festinger), social comparison theory (Festinger), and social identity theory (Tajfel & Turner).

Dr. Ito will cover emotion, including the cross-disciplinary historical roots of contemporary research in emotion and current major theoretical traditions.

Prof. Loersch will cover Attitudes: Theory and Measurement. This section will survey classic and contemporary conceptualizations of the attitude construct with a focus on understanding the question, "What is an attitude?" In doing so, we will examine the cognitive processes that underlie attitude formation and expression and the practical and theoretical issues that have presented themselves as the field has attempted to measure this construct.

**Instructor consent is required for this course.**
PSYC 6606  PROFESSIONAL ISSUES
Dr. Blair
001  12:00-12:50  W  MUEN E214
Covers a range of topics important for professional development in social psychology, including preparation and delivery of research presentations, preparation of grant proposals and manuscripts, and peer review of manuscripts. Intended to prepare students for careers as research scientists.

PSYC 7536  SEM: SOCIAL NEUROSCIENCE
Dr. Ito
801  1:00-3:30  M  MUEN D334
This course will examine social processes from a neuroscience perspective. The goal will be to use recent research on the neural mechanisms of social cognition and some classic social psychological work to (1) build an integrative perceptive of how our social processes are instantiated in the brain and (2) advance our understanding of social psychological theory. Examples of topics to be covered include making inferences about the intentions of others, controlling emotional responses, and face perception. Prior background in social psychology or neuroscience recommended.

NEUROSCIENCE
NRSC 5100  INTRO TO NEUROSCIENCE I
Dr. Barth
801  2 credits-need only attend Friday class
820  5 credits (must attend NRSC 5052 also)
   10:00-11:40  F  MUEN E214
   9:30-10:45  TR  HUMN 1B80
L821  12:00-1:50  F  MUEN E0022
L822  2:00-3:50  F  MUEN E0022
L823  12:00-1:50  W  MUEN E0022
L824  2:00-3:50  W  MUEN E0022
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 (NRSC/PSYC 5052). 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) prior to enrollment.
NRSC 6100  ADVANCES IN NEUROSCIENCE
Dr. Spencer
001  3:30-5:15  T  MUEN E214
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 3:30-5:15PM 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.

NRSC 5052  BEHAVIORAL NEUROSCIENCE
Dr. Barth
100  9:30-10:45  TR  HUMN 1B80
L101  12:00-1:50  F  MUEN E0022
L102  2:00-3:50  F  MUEN E0022
L103  12:00-1:50  W  MUEN E0022
L104  2:00-3:50  W  MUEN E0022
Same as PSYC 5052

NRSC 5072  CLINICAL NEUROSCIENCE
Dr. Vigers
001  1:00-1:50  MWF  RAMY N1B23
Provides a review of the anatomy and physiology of the nervous system and then explores how alterations in these systems can result in neurologic or psychiatric disorders. Emphasizes pathological neuroanatomy, neurophysiology, and neuropharmacology, which is essential for understanding problems related to health and disease.