

# EXP: Experimental Psychology Courses

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## Courses

### EXP 3905 Directed Study

College of Health, Department of Psychology

1-12 sh (may be repeated indefinitely for credit)

### EXP 4204 Sensation and Perception

College of Health, Department of Psychology

3 sh (may not be repeated for credit)

Prerequisite: [PSY 3213](#)

Will survey the theory and literature related to the study of sensation and perception. Topics will include the neural mechanisms involved in coding sensory information, visual processing, audition, speech perception, cutaneous and chemical senses, development of perceptual processes, and impairment of vision and hearing.

### EXP 4250 Human Factors Psychology

College of Health, Department of Psychology

3 sh (may not be repeated for credit)

Surveys the field of human factors psychology. Specifically, the principles of psychology from various specialty areas (e.g., cognitive, experimental, industrial/organizational, physiological etc.) will be applied to the study of human performance in work settings. Students will learn how work is designed to capitalize on cognitive and physical capabilities and compensate for human limitations. Students will also become familiar with the tools and techniques that human factors psychologists use to study human-machine interaction and work design. Offered concurrently with [EXP 5256](#); graduate students will be assigned additional work.

### EXP 4404 Psychology of Learning

College of Health, Department of Psychology

3 sh (may not be repeated for credit)

Prerequisite: [PSY 2012](#)

Principles and applications of learning theories, including conditioning and extinction, reinforcement and punishment, attention, memory, cognitive processes and physiological correlates of memory and cognition. It is preferred that the student has had several other psychology courses.

### EXP 4507 Memory and Cognition

College of Health, Department of Psychology

3 sh (may not be repeated for credit)

Prerequisite: [PSY 3213](#)

Will survey theory and literature related to the study of human memory and cognition. Topics will include attention, memory, imagery, language and bilingualism, problem solving, metamemory, expertise, and the development of language and cognitive processes.

### EXP 4905 Directed Study

College of Health, Department of Psychology

1-12 sh (may be repeated indefinitely for credit)

### EXP 5208 Advanced Sensation and Perception

College of Health, Department of Psychology

3 sh (may not be repeated for credit)

Students must take [EXP 4204](#) before enrolling in this course.

Students will develop an in-depth understanding of how human beings use environmental energies to sense and perceive the world. Topics include the examination of neural systems involved in vision, audition, somatosensation, olfaction, and gustation. Physiological, psychophysical, and cognitive research methodologies used to understand and predict human perception will be discussed.

### EXP 5256 Human Factors Psychology

College of Health, Department of Psychology

3 sh (may not be repeated for credit)

Surveys the field of human factors psychology. Specifically, the principles of psychology from various specialty areas (e.g., cognitive, experimental, industrial/organizational, physiological etc.) will be applied to the study of human performance in work settings. Students will learn how work is designed to capitalize on cognitive and physical capabilities and compensate for human limitations. Students will also become familiar with the tools and techniques that human factors psychologists use to study human-machine interaction and work design. Offered concurrently with [EXP 4250](#); graduate students will be assigned additional work.

### EXP 5735 Experimental and Correlational Statistics for Psychology

College of Health, Department of Psychology

3 sh (may not be repeated for credit)

This course focuses on quantitative research approaches with particular attention given to the selection of procedures for obtaining empirical data that provide meaningful answers to research questions and to the relation between research design and statistical analysis. Topics include researching the literature, developing research questions, designing and evaluating empirical research, and communicating research methods and results in standard technical format (APA style). Ethical issues in the conduct of research will be addressed.

### EXP 5905 Directed Study

College of Health, Department of Psychology

1-12 sh (may be repeated indefinitely for credit)

### EXP 6085 Seminar in Applied Psychological Sciences

College of Health, Department of Psychology

3 sh (may not be repeated for credit)

Prerequisite: [PSY 6217](#)

This course provides an opportunity for students in the Applied Experimental Psychology (AEP) MA track to explore a range of study domains and research methodologies across the science of psychology. It is intended as an advanced survey course in which faculty members and students from the School of Psychological and Behavioral Sciences present brief seminars in their areas of research and on topics related to student's professional development.

**EXP 6506 Advanced Cognitive Psychology**

College of Health, Department of Psychology

3 sh (may not be repeated for credit)

Students must take PSY 3213 and PSY 3215 and EXP 4404; or an undergraduate degree in Psych before enrolling in this course. Students will develop a broad understanding of current research and theorizing in the various topics of memory and cognition, including attention, memory systems and processes, representation of knowledge, metamemory, language, problem solving, expertise, decision making, and creativity. Emphasis will be placed on current research and theory in human memory cognition. Students will develop an in-depth understanding of a selected topic in cognition and will write a literature review paper discussing current research and theory in this topic.

**EXP 6905 Directed Study**

College of Health, Department of Psychology

1-12 sh (may be repeated indefinitely for credit)