

PROPOSED PSYCHOLOGY DEPARTMENT COURSE CHANGES:

PSY 335 151, Human Factors in Science & Engineering, 3 cr, 3 cl hrs

Prerequisite: PSY 121 or consent of instructor

Proposed: Change the course to a 100 level course. Change in course description.

Justification: The course shows the importance of human factors to science and engineering. At this level, science and engineering students can take this course for Social Science credit. Have also found a textbook appropriate for this level course.

This course explores how human capabilities and limitations influence decision making and performance and how scientists and engineers can use knowledge of these factors to improve design. ~~workspaces and devices to maximize human capabilities and minimize human limitations.~~ The class **We will** focus on how cognitive processes and biases in perception, attention, memory and problem solving influence performance. Examples of "human error" and ways in which error can be averted will be studied. Comparisons will be made between human and artificial intelligence.

PSY 212, Drugs and Behavior, 3 cr, 3 cl hrs

Prerequisite: PSY 121

Proposed: Change in course description.

Justification: Editorial changes in course description.

An overview of ~~the design and interpretation of psychopharmacological research; emphasis on self-administered drugs as well as addictions and treatment.~~ **how drugs affect brain and behavior, with an emphasis on self-administered drugs, addiction and treatment.**

PSY 301, **Sensation and Perception, 4 cr, 3 cl hrs, 2 lab hrs**

Prerequisites: PSY 205; a lab usage fee is charged

Proposed: Changes in the title of course and the course description.

Justification: Description and title better match the contents of this course.

~~Experimental and theoretical study of sensory mechanisms and perceptual processes.~~ **An experimental and theoretical study of the special senses (vision, hearing, smell, taste and touch), including the structure, function and disorders of sensory and perceptual systems.**

PSY 309, Behavioral Neuroscience, 4 cr, 3 cl hrs, 2 lab hrs

Prerequisites: Psychology 205 passed with a C- or better; Biology 111, 112; a lab usage fee is charged

Proposed: Changes in course description.

Justification: Description better matches the contents of new faculty teaching this course.

Study of the neural and other physiological bases of behavior. Functional neuroanatomy of sensory and motor systems, motivation and drives, learning and emotion.

~~Clinical correlates of neurological abnormalities are emphasized. Laboratory concentrates on the neuroanatomy of sheep, rat and human brain.~~ Laboratory includes the neuroanatomy of sheep and human brains; the electrophysiology of neural circuitry underlying stretch reception in the grasshopper and locomotor patterns in fish; and organizational effects of hormones in a songbird.

~~PSY 312, Psychopharmacology, 3 cr, 3 cl hrs~~

~~Prerequisites: PSY 212; BIOL 111, 112~~

Proposed: Delete course.

Justification: To be replaced by PSY 314 which focuses much more on treatment.

~~Behavioral and pharmacological techniques for the study of drugs acting on the nervous system. Topics include sites of drug action, CNS toxicity, psychotherapeutics, and experimental designs employed in psychopharmacological research.~~

PSY 314 - Psychotherapeutics, 3 cr, 3 cl hrs

Prerequisites: PSY 212, BIOL 111, 112

Proposed: Add course to replace Psy 312

Justification: New course by new faculty member.

A study of approaches to treatment of disorders of the nervous system, from the function and dysfunction of the nervous system, to in depth explanations of the development and application of pharmacological, gene and cell replacement approaches to treatment of disease.

PSY3XX – Psychology of Language, 3 cr, 3 cl hrs

Prerequisites: PSY 121

Proposed: New course

Justification: New course in area of expertise by new faculty member.

Language may be the most uniquely human behavior. This class explores the evolutionary origins of language in animal communication abilities; how the brain makes sense of language and plans speech; child development of language understanding and production; and social aspects of human behavior in conversation.

PSY 330, Abnormal Psychology, 3 cr, 3 cl hrs

Prerequisite: PSY 121

Proposed: Change course description.

Justification: Description better matches the contents of new faculty teaching this course.

~~An introduction to psychopathology. Includes the etiology, diagnosis, treatment, and prognosis of behavioral disorders.~~ A psychobiological investigation of the cause, presentation, diagnosis, treatment and prognosis of behavioral disorders.

PSY 362, Animal Behavior, 3 cr, 3 cl hrs

Prerequisites: PSY 121 or consent of instructor

Proposed: Change in course description.

Justification: Description better matches the contents of new faculty teaching this course.

~~General overview of ethological and physiological approaches to the study of animal behavior.~~ **An overview of the study of animal behavior, focusing on presentation, adaptive advantage and mechanisms of specific behaviors.**

(Same as BIOL 362)

~~**PSY 376, Mass Violence and Aggression, 3 cr, 3 cl hrs**~~

~~*Prerequisite: Upper division standing or consent of the instructor*~~

Proposed: Delete course.

Justification: Faculty member who co-taught this course has retired. This course is still taught as a History class.

~~—This course examines the nature and dynamics of mass violence and aggression, and their impact on politics and societies. Through lectures and readings the students explore and compare political, sociological and psychological dimensions of genocides, state terror, and ethnic cleansing. (Same as HIST 376)~~

PSY 400, History of Psychology, 3 cr, 3 cl hrs

Prerequisite: Nine hours in psychology

Proposed: Change in course description.

Justification: Editorial changes in course description.

This course traces central questions and concepts of psychology from their origins in classical philosophy and medicine to modern times. **Interactions between historical developments and psychological research are emphasized.**

PSY 409-01 / BIOL 489-02 / BIOL 581-03 - Cell and molecular neuroscience, 3 cr, 3 cl hrs

Prerequisites: PSY 121 and BIOL 331 or consent of the instructor

Proposed: New course

Justification: New course in area of expertise by new faculty member. Also part of Biomed program.

A study of the molecular and cellular basis of the nervous system, covering fundamentals of cell biology, principles of neuronal signaling and neuronal circuits, and cell and molecular approaches to the investigation, diagnosis and treatment of diseases of the nervous system.

PSY410 - Neurology, 3 cr, 3 cl hrs

Prerequisites: PSY 121 or BIOL 111

Proposed: New course

Justification: Area of expertise of new faculty member. Also, to be added as an option in the Biomed. program.

An examination of the non-cognitive functions of the nervous system (e.g. autonomic function, biological rhythms, and sleep), and the etiology, diagnosis and treatment of selected neurological disorders such as epilepsy, migraine and traumatic brain injury.

PSY 495, Biomedical Senior Thesis I, 3 cr

Prerequisite: PSY 309 or consent of instructor.

Proposed: Add prerequisite.

Justification: This should have originally been a prerequisite.

For Biomedical Science majors. Mentored, problem-oriented biomedical research under the direction of a faculty member. Students should consult with their academic advisor and with various Psychology faculty to identify a Thesis advisor. Near the end of the semester, students will give a formal research presentation.

PSY 496, Biomedical Senior Thesis II, 3 cr

Prerequisite: PSY 495

Proposed: Add prerequisite.

Justification: Should have originally been a prerequisite.

For Biomedical Science majors. Continuation of BIOL 495. Students are required to write a paper on the research project and to give an oral presentation.