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III. Approvals (signatures and date)

[Handwritten signatures and dates are present in this section, including names like "M. A. ...", "P. ...", "T. ...", and "L. ...".]

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Catalog Description

PSYC 359 Sensation and Perception

3 lecture hours

2 lab hours

4 credits

(3c-2l-4sh)

Prerequisite: PSYC 290

Introduces the biological and psychological processes that determine our perceptions and their relationships to physical

properties of the environment. Laboratory work provides the opportunity to explore lecture and textbook topics first-hand, and to collect and analyze psychophysical data.

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Prerequisite: PSYC 290

Introduces the biological and psychological processes that determine our perceptions and their relationships to physical properties of the environment. Laboratory

B. The Chemical Senses

C. Perceptual Development

EXAMINATION 4 (Final examination period)

Laboratory Exercises

Lab 1: Overview of interactive computer software and other lab materials.

Labs 2 and 3: Measuring sensory experience, classical psychophysical methods, and signal detection. Includes collection of length and area discrimination data and its description; the method of limits and calculation of the absolute threshold; signal detection methods including exploration of effects of changing signal intensity, noise level, and observer sensitivity.

VI. Special Resource Requirements

Students are not expected to supply any materials or equipment. All laboratory materials are supplied by and are available in the Psychology Department.

VII. Bibliography

Books:

Bruce, V., and Green, P. R. (1990). *Visual perception: Physiology, psychology and ecology* (2nd edition). Hillsdale, NJ: Lawrence Erlbaum.

Cornsweet, T. N. (1970). *Visual perception*. New York: Academic Press.

Dowling, J. W., and Harwood, D. L. (1986). *Music cognition*. New York: Academic Press.

Goldstein, E. B. (2002). *Sensation and perception* (6th edition). Belmont, CA: Wadsworth.

Humphreys, G. W., and Bruce, V. (1989). *Visual cognition: Computational, experimental, and neuropsychological perspectives*. Hillsdale, NJ: Lawrence Erlbaum.

Pinker, S. (Ed.) (1985). *Visual cognition*. Cambridge, MA: MIT Press.

Schiffman, H. R. (2001) *Sensation and perception: An integrated approach* (5th edition). New York: John Wiley & Sons.

Sekuler, R., and Blake, R. (1994). *Perception* (3rd edition). New York: Alfred A. Knopf.

Mandler, D. A. (1995). *Foundations of cognition*. Sunderland, MA: Sinauer.

Course Analysis Questionnaire

A. Details of the Course

A1 This course meets a laboratory requirement for the B.A. degree in psychology. It is not intended for inclusion in the Liberal Studies program.

A2 This course does not require changes in any other courses or programs in the department.

A3 Two sections of this course were offered in the Spring, 2000 semester. Computer and other laboratory equipment requirements dictated that enrollment be set to the capacity of the laboratory. Originally, one section was offered. However, in order to meet the demands of students needing a psychology core area requirement course for graduation, a second section was added. Both sections were filled. A third section was added in the fall semester.

A4 This course is not intended to be dual level.

A5 This course is not to be taken for variable credit.

A6 Similar courses are offered in virtually every university and college psychology department. The following are representative examples:

Indiana University of Pennsylvania



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