

J. Beck  
Spring, 1987

Psychology 438

The text is Fundamentals of Sensation and Perception by Levine and Shefner.

Basic Visual Functions, Chapters 4, 5, 7: April 1 - April 10

1. Retinal physiology and anatomy
2. Visual adaptation

Form Perception, Chapters 6, 8, 9: April 13 - May 1

1. Initial coding of elements of form in terms of feature analysis and spatial frequency responses.
2. Organization and interpretative mechanisms that give rise to the perception of a specific form or shape.

Space Perception, Chapters 11, 12: May 4 - May 15

1. How the visual system derives information about surface-slant and distance from brightness, texture, surface contours, stereopsis, and motion parallax.
2. How the visual system achieves size and shape constancy.

Movement Perception, Chapter 13: May 18 - May 22

1. Stimulus analyzing mechanisms. Are the processes that underlie apparent movement the same as those that underlie real movement?
2. Integrative mechanisms in motion perception. Position constancy.

Color Perception, Chapter 14: May 25 - June 5

1. Receptor mechanisms and theories of color vision.
2. How the visual system achieves color constancy.

Two hourly exams will be given on April 29 and May 29.