

PSYCHOLOGY 438

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Spring 1989

The text is Perception by Sekuler and Blake

Introduction and the Eye                      Chapters 1 and 2                      March 29-April 3

1. Problems of perception
2. Physics of light
3. Structure of the eye
4. Eye as an optical instrument

Basic Visual Functions                      Chapters 3 and 4                      April 5-April 11

1. Light and dark adaptation
2. Receptive fields and the lateral inhibition model
3. Acuity

Pattern Perception                      Chapter 5                      April 12-April 24

1. Spatial frequency analysis
2. Feature detectors
3. Organizational and interpretative processes

Color Perception                      Chapter 6                      April 26-May 8

1. Receptor mechanisms
2. Opponent cell processes
3. Color blindness
4. Lightness constancy

Depth Perception                      Chapter 7                      May 10-May 21

1. Geometry of stereoscopic depth perception
2. Monocular cues for depth
3. Size and shape constancy

Movement Perception                      Chapter 8                      May 24-June 2

1. Real and apparent movement
2. Position constancy
3. Organizational processes

MIDTERM: April 26

FINAL: June 5, 3:15 pm