

# BEHV 2010 PERCEPTION

**Credit Points** 10

**Legacy Code** 101680

**Coordinator** John Cass ([https://directory.westernsydney.edu.au/search/name/John Cass/](https://directory.westernsydney.edu.au/search/name/John%20Cass/))

**Description** This unit examines the fundamental principles underlying human perception and expands upon the sensation and perception content introduced in the foundational psychology units. After reviewing the biological basis of sensing and perceiving, we will explore the way this relatively raw information is processed and organised into the complex perceptions of the visual, auditory, olfactory, gustatory and somatosensory systems, which constitute the fundamental basis of our experience of the world. The unit will also examine the history of perceptual theories and the use of psychophysical methods and experimental approaches to the study of perceptual processes

**School** Psychology

**Discipline** Psychology

**Student Contribution Band** HECS Band 4 10cp

Check your HECS Band contribution amount via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 2 subject

**Pre-requisite(s)** BEHV 1016

**Equivalent Subjects** BEHV 2001 - Biological Psychology and Perceptual Processes

## Restrictions

Note that only students enrolled at WSU Online may register in the WSU Online subjects offered at that location.

## Learning Outcomes

On successful completion of this subject, students should be able to:

1. Demonstrate understanding of the major neural structures and computational principles associated with human sensation and perception, specifically including visual, auditory, somatosensory and chemical sensory systems.
2. Demonstrate how the major perceptual systems impact on mental functioning and behaviour using the scientific method.
3. Describe and evaluate theories and propositions of aspects of sensory and perceptual processes.
4. Complete a Scientific Laboratory Report conforming to APA Guidelines.

## Subject Content

1. Introduction: This topic will introduce perception and sensory processing. It will include the early philosophy of perception, gestalt principles, psychophysics and the importance of biology.
2. Chemical Senses: This area will introduce you to the structure and function of the chemosensory systems focussing on olfaction and gustation. You will learn about olfactory and gustatory stimuli, receptors and coding. We will look at connections between odour, memory and emotions, and specifically examine the cross-modal interactions of taste and odour (flavour) including hedonics.

3. Touch: This topic will cover the phenomenology and physiological coding of human somatosensation, including what environmental information is encoded, and how this is represented in the cortex.
4. Audition: This topic will introduce you to auditory stimuli, physiology, and psychoacoustics. The presented material will examine the perception of sound in the environment and perception of complex sounds including language and music.
5. Vision: This area will cover a range of visual topics. After an introduction to the visual receptors, neural processing and central processes, you will learn about the perception of colour and the role of attention in vision. We will also look at depth/space perception, binocular vision, recognising objects and gestalt principles.

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Item	Length	Percent	Threshold	Individual/Group Task
Report	Part 1: Experimental code and stimulus design (/25%. Approximately 20 hours of work); Part 2: Methods, Results and brief Discussion (/25%. Max. 1000 words)	50	N	Group
Portfolio	3 x 100 words	15	N	Individual
Final Exam	2 hours	35	N	Individual

## Prescribed Texts

Wolfe, J.M., Kluender, K.R., Levi, D.M., Bartoshuk, L.M., & Herz, R.S. (2018). Sensation and Perception (5th Edition). Sunderland, M.A.: Sinauer Associates, Inc.

## Teaching Periods

## Autumn

### Bankstown

#### Day

**Subject Contact** John Cass ([https://directory.westernsydney.edu.au/search/name/John Cass/](https://directory.westernsydney.edu.au/search/name/John%20Cass/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=BEHV2010\\_22-AUT\\_BA\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=BEHV2010_22-AUT_BA_D#subjects))

### Penrith (Kingswood)

#### Day

**Subject Contact** John Cass ([https://directory.westernsydney.edu.au/search/name/John Cass/](https://directory.westernsydney.edu.au/search/name/John%20Cass/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=BEHV2010\\_22-AUT\\_KW\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=BEHV2010_22-AUT_KW_D#subjects))

## **Parramatta - Victoria Rd**

### **Day**

**Subject Contact** John Cass ([https://directory.westernsydney.edu.au/search/name/John Cass/](https://directory.westernsydney.edu.au/search/name/John%20Cass/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=BEHV2010\\_22-AUT\\_PS\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=BEHV2010_22-AUT_PS_D#subjects))

## **WSU Online TRI-2**

### **Wsu Online**

#### **Online**

**Subject Contact** John Cass ([https://directory.westernsydney.edu.au/search/name/John Cass/](https://directory.westernsydney.edu.au/search/name/John%20Cass/))

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