



CENTRO DE TEOLOGIA E CIÊNCIAS HUMANAS
DEPARTAMENTO DE PSICOLOGIA
PÓS-GRADUAÇÃO EM PSICOLOGIA CLÍNICA

2023.2

PUC
RIO

PSI 2342 **Principles of cognitive neuroscience**

CARGA HORÁRIA TOTAL: 45 HORAS -

CRÉDITOS: 3-0-0

Professor: Thomas Eichenberg Krahe

Horário: Quintas-Feiras, 13 - 16h

OBJETIVOS

This course aims to provide students with a foundation in the field that studies the intricate links between the mind, the brain, and behavior.

EMENTA

Understand basic concepts of cognitive neuroscience including dominant theories of the neural underpinnings of a variety of cognitive processes and the research that has led to those theories.

PROGRAMA

Preliminary program:

1. Introductory Lecture
2. Principles of Cognitive Neuroscience (Overview)
3. Sensory Processing (Overview)
4. The Perception of Visual Stimuli
5. The Perception of Auditory Stimuli
6. Mechanosensory and Chemosensory Perception
7. Principles of Motor Processing and Motor Behavior
8. Principles of Attention (Overview)
9. Attention (Stimulus Processing, Attentional Control)
10. Principles of Memory (Overview)
11. Principles of Memory (Types of Memory)
12. Principles of Emotion (Overview)
13. Principles of Emotion (Social Cognition)
14. Principles of Executive Processing (Overview)
15. Decision Making and Reasoning
16. Brain Plasticity

AValiação

Grading: Grades are based on written assignments. Regular class attendance and participation are also required for successful completion of the course.

**BIBLIOGRAFIA
PRINCIPAL**

BANICH, M.T.; COMPTON, R.J. **Cognitive neuroscience**. Cambridge: Cambridge University Press, 2018.
KANDEL, E. *et al.* **Principles of neural science**. 5ª ed. Nova York: McGraw-Hill Education, 2012.
PURVES, D. *et al.* **Principles of cognitive neuroscience**. 2ª ed. Sunderland: Sinauer Associates Inc Publishers, 2012.

**BIBLIOGRAFIA
COMPLEMENTAR**

EAGLEMAN, D. **The brain: the story of you**. Nova York: Vintage Books, 2017.
PINKER, S. **Enlightenment now: the case for reason, science, humanism, and progress**. Londres: Penguin Books, 2018.
RUGG, M.D. **Cognitive neuroscience**. Hove: Psychology Press, 2013.