



COGNITIVE SCIENCE

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COURSE OBJECTIVES

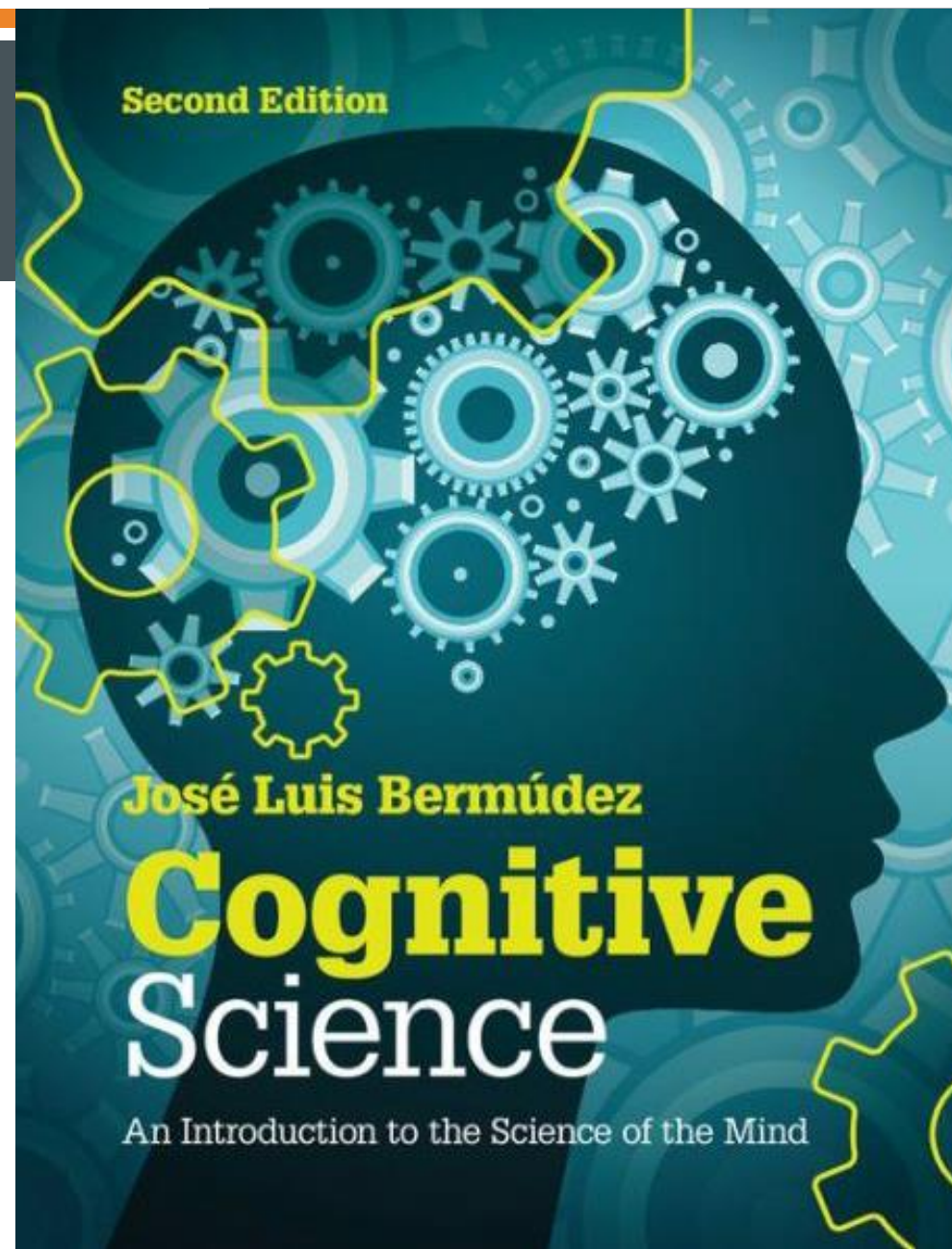
- Understanding MIND as an information processor
- Be familiar with information processing models

EVALUATION

- Mid term exam and final exam will cover 70% of the grade (30% mid 40% final)
- 20% for homework, 10% for attendance
- Most of the mid term and final exam questions will be related to homework questions

TEXTBOOK

- Cognitive Science: An Introduction to the Science of the Mind (2nd Ed) by Jose Luis Bermudez (CAMBRIDGE UNIVERSITY PRESS, 2014)



COURSE WEBSITE

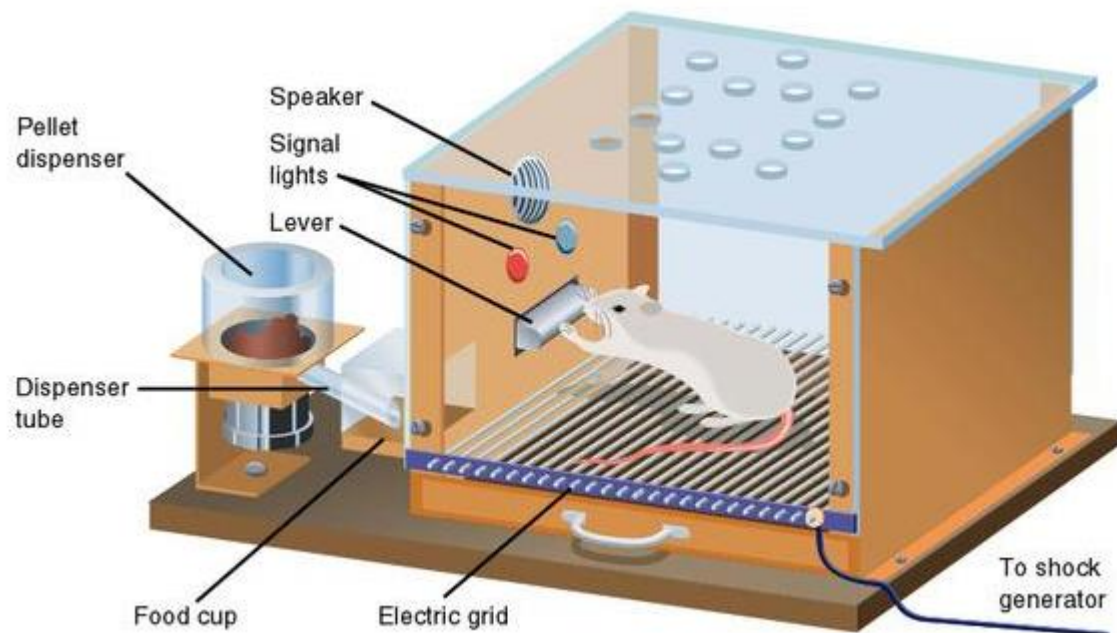
- <https://semoconlab.com/class/2019-2/cognitive-science/>

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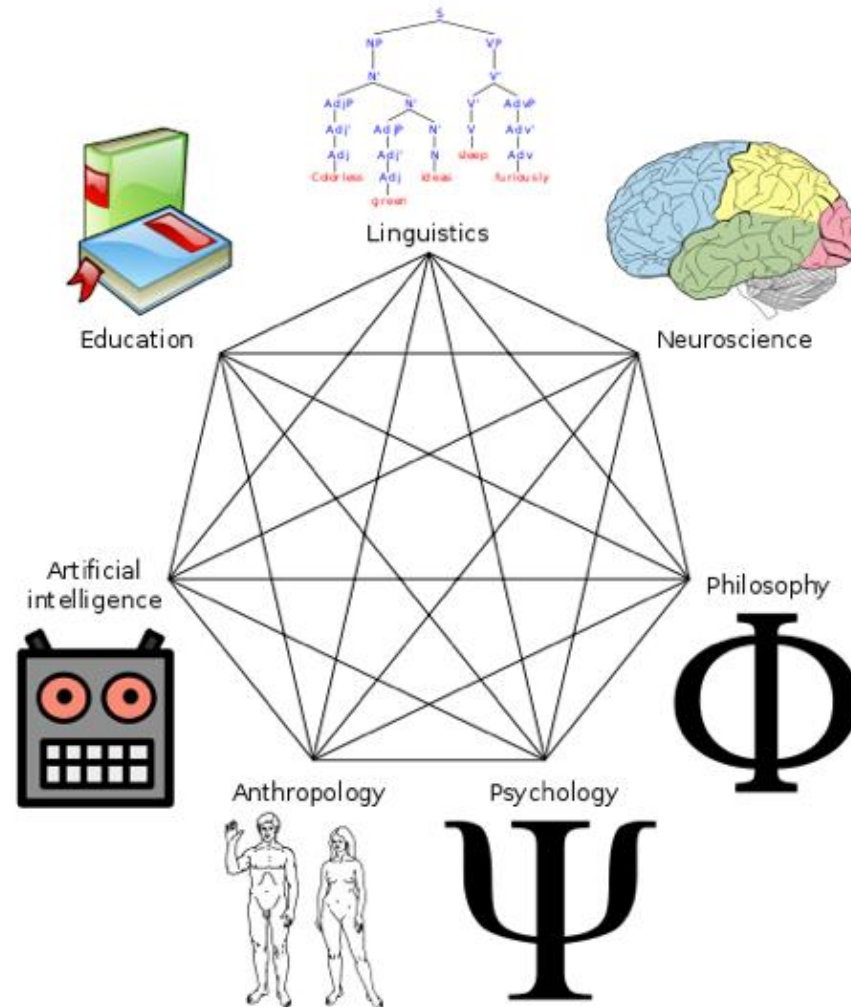
- Historical background and milestones
- The integration challenge: Challenge as a multidisciplinary research field
- Information-processing models of the mind
- How the mind is organized
- New horizons

HISTORICAL BACKGROUND AND MILESTONES

- From Behaviorism to Cognitive revolution



THE INTEGRATION CHALLENGE: CHALLENGE AS A MULTIDISCIPLINARY RESEARCH FIELD

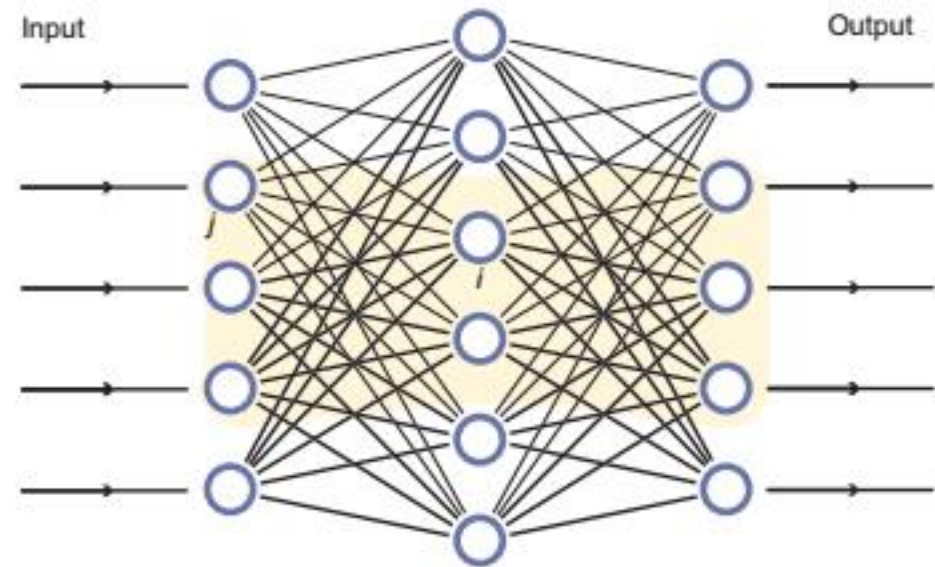


INFORMATION-PROCESSING MODELS OF THE MIND

Physical symbol approach



Neural network approach



HOW THE MIND IS ORGANIZED & NEW HORIZONS

- How the mind is organized
 - Modularity and functional specialization

- New horizons
 - Dynamical system and cognition
 - Consciousness