Classes

COMPUTATION AND COGNITION [1]

Semester: Fall
Offered: 2017

Students of this course will be exposed to computational models of cognitive processes, with a focus on mechanistic neural network models and functional (normative) models of cognitive phenomena. (course catalogue information [3])


Semester: Spring
Offered: 2017
Course site (restricted access) [2]

Neural Networks 1 presents basic principles in theoretical study of neural networks, focusing on neuronal dynamics. (course catalogue information [5])

THEORETICAL SEMINAR IN NEURAL COMPUTATION (76945) [6]

Semester: Fall
Offered: 2013

Instructive reading of Theoretical topics in Neural Computation. (course catalogue information [7])

COMPUTATION AND COGNITION (06119) [8]

Semester: Fall
Offered: 2013
Course site (restricted access) [9]

The course offers an introduction to computational methods and principles in neuroscience and
psychology. The range of topics include the Hopfield model for associative memory, the Perceptron model, supervised learning in linear and non-linear networks, unsupervised learning (PCA and vector quantization), reinforcement learning (TD learning and REINFORCE), Expected Utility Theory vs. Prospect Theory, control theory and dynamic programming and Game Theory.

**UNDERGRADUATE SEMINAR: BRAIN & BEHAVIOR SCIENCES (72526)** [10]

**Semester:** Spring  
**Offered:** 2013

[course catalogue information](http://example.com/)

**LAB ROTATION (76922)** [12]

**Semester:** Spring  
**Offered:** 2013

Students are given the opportunity to do practical work in laboratories of Hebrew university. In the framework of this course students and teachers define a project that can be completed in one semester. Students may choose to present the project as their M.Sc. seminar. The requirements for credit in the laboratory rotation course are that the student will work in two different labs. [course catalogue information](http://example.com/)

**INTRODUCTION TO NEUROBIOLOGY (72369)** [14]

**Semester:** Spring  
**Offered:** 2013

[Course site (restricted access)](http://example.com/)

**TUTORIAL COURSE: SELECTIVE TOPICS IN NEURAL COMPUTATION (76943)** [17]

**Semester:** Spring  
**Offered:** 2011

**UPCOMING EVENTS**

![Image](http://example.com/)

Learn more about our exciting upcoming events!

**Studying at ELSC**

Our Int'l Ph.D. program provides outstanding students with top-notch courses in computational neuroscience.

**The Building**

The Jerusalem Brain Sciences Building will provide a state-of-the-art research and teaching facility for the Edmond and Lily Safra Center for Brain Sciences.

**ELSC Media Channel**

Get into our media channel and investigate ELSC's latest videos: seminars, public lectures, courses and video articles.

**Source URL:** https://elsc.huji.ac.il/loewenstein/classes

**Links:**

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