

## SILS: Brain and Cognition

開講年度 学期: 2016 年度 秋学期

科目名: Brain and Cognition, Thursday 5<sup>th</sup> period room 819 building 11

担当教員: Ray (LC) Luo

科目区分: 中級科目

配当年次: 1 年以上 単位数: 2

### 授業概要:

This is a course about ways in which we try to understand ourselves, our peers, and our society. We will address these questions using perspectives from psychology, neuroscience, sociology, computation, media studies, history, and self reflection in a global, socially relevant context. No previous knowledge is required. We will use movies and audio recordings.

### 授業の到達目標 (Objectives):

We will see how to overcome obstacles to thinking and to communication with others. After the course, everyone will be expected to come to their own perspectives about important questions in society. This course will be enriched with audio-video materials for engagement with topics covered.

### 授業計画:

Subject to changes adaptable to our interactions in the class.

- 09-29 P01. Brain and cognition: why it's not all about brain, nor cognition.
- 10-06 P02. Philosophy: a quest for certainty, and self affirmation.
- 10-13 P03. Language: a medium for communication, or self expression.
- 10-20 P04. Sensory systems: creating our own illusions.
- 10-27 P05. Motor systems: planning, execution, and feedback.
- 11-10 P06. (Implicit) Memory: consolidation, editing of selective information.
- 11-17 P07. Attention and perception: the how in why should I care.
- 11-24 P08. Reward and motivation: the why in how much I care.
- 12-01 P09. Evolution: from animal behavior to social interaction.
- 12-08 P10. Emotions: loneliness of the (single) long distance runner.
- 12-15 P11. Social influence: implicit modulation of behavior.
- 01-12 P12. Consciousness and intelligence: a matter of definition.
- 01-19 P13. Neurodesign: from vision to (unobstructed) reality.
- 01-26 P14. Neuroconstruction: robotics and brain machine interfaces.
- 02-02 P15. Examination: an opportunity for consolidation.

### 参考文献

Recommendations will be given during the course.

### 成績評価方法

試験:	80%	Exam and one-page mini-report
	20%	Attendance

### 備考・関連 URL

Addressing how to know what we don't know about ourselves.