

Schedule: The course will meet once a week on Fridays, from 12:00 PM to 2:00 PM. Each class will consist of about 1 hour of a didactic lecture, followed by a student-led discussion of clinical research papers focusing on cognitive neuroscience approaches to understanding brain disorders.

Course requirements: As the lectures revolve around evaluation of the assigned readings, all students should come to class prepared to join the discussion. Each student will have to prepare 2 in-class presentations throughout the course of the semester, on one of the selected lecture topics. Please sign-up for your week by the second week of classes. Your final grade will be based on your in-class presentations, as well as your participation.

Presentation 1:	30%
Presentation 2:	30%
Participation /attendance	40%
TOTAL	100%

Reading materials: Relevant reading materials and lecture notes will be available on Blackboard.

Additional recommended readings:

Methods in Mind (Ed., Gazzaniga)

Cognitive neuroscience and neuropsychology (Marie T. Banich) Published: Boston : Houghton Mifflin Co., c2004.

Principles of cognitive neuroscience (Dale Purves ... [et al.]. Published: Sunderland, Mass. : Sinauer Associates, c2008.

Timetable:

DATE	INSTRUCTOR	TOPIC	Student presenters
13-Jan	Belger/Rustioni	Introduction to Human Functional Anatomy	
20-Jan	Belger	Brain Development/Maturation and neurodevelopmental disorders (autism)	
27-Jan	Hart/Donkers	Methods of Cognitive Neuroscience	
3-Feb	Belger	Cognitive neuroscience of perception and attention	
10-Feb	Belger	Social Cognitive neuroscience and exploration of deficits in this domain in neurodevelopmental and neuropsychiatric disorders.	
17-Feb	Belger	Cognitive neuroscience of Memory	
24-Feb	Belger	Brain Disorders of Memory Function (Alzheimer, amnesia)	
2-Mar	Belger	Cognitive Affective Neuroscience	
9-Mar	No class		

16-Mar	Dichter	Brain Disorders of Affective Processing and Depression	
23-Mar	Charlotte Boettiger	Reinforcement Pathways Of The Brain And Brain Disorders Of Reinforcement And Addiction	
30- Mar	Belger	Executive Function and frontal lobe impairments in neuropsychiatric disorders (schizophrenia, autism, bipolar)	
6-Apr	No class		
13-Apr	Belger	Executive Function and frontal lobe impairments in neuropsychiatric disorders (schizophrenia, autism, bipolar)	
20-Apr	Grewen	Neuroendocrine modulation of Cognitive function in development and disease	
27-Apr	Belger et al.	Wrap-up and general discussion	