

2017-18 Academic Year, Fall Semester

Neurobiology of Brain Disorders

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Prerequisites: Students must have taken/are currently taking Cellular and Molecular Neurobiology (V80.0210001) or an equivalent course. Exceptions will be determined by the instructor.

Schedule: All classes will be held in Room 808, Meyer Hall from 10:00-11:50.

Textbook: There is no textbook for this course. The lectures will be based on the primary literature and readings will be assigned for each lecture.

Grading: There will be a mid-term exam and final exam. The mid-term will count for 40% and the final exam will count for 60%.

Syllabus:

Lecture #	Date	Lecture Topic
1	09/05/17	Behavioral Measures in Mice and Basics of Synaptic Plasticity
2	09/12/17	Developmental Disorders: Autism
3	09/19/17	Developmental Disorders: Fragile X Syndrome (Lecture by Dr. Heather Bowling)
4	09/26/17	Developmental Disorders: Tuberous Sclerosis
5	10/03/17	Developmental Disorders: Rett Syndrome
6	10/10/17	Developmental Disorders: Angelman Syndrome
	10/17/17	Mid-term Exam
7	10/24/17	Use of Human Genetics and Stem Cells to Model Brain Disorders (Lecture by Ilona Kats)

8	10/31/17	Schizophrenia
9	11/07/17	Down Syndrome
10	11/14/17	Alzheimer's Disease and Frontotemporal Dementia
11	11/21/17	Parkinson's Disease
12	11/28/17	Drug Addiction
13	12/05/17	Review
14	12/12/17	Legislative Day – no class (classes meet according to a Monday schedule)
	12/19/17	Final Exam (10:00-11:50 am; room TBD)