Course Name and Number: Neuroanatomy: BMSC-GA 4420
Times: 10AM-1PM unless otherwise stated.
Location: Coles 301, except on the following dates 1/9, 1/23 when the class will be in Coles 107.

Instructors: Lila Davachi, ld44@nyu.edu
Eric Lang, eric.lang@nyumc.org
Wendy Suzuki, ws21@nyu.edu

Textbook: The text for the course is Barr's The Human Nervous System. Any edition from the 8th or later is acceptable. Readings listed are based on 8th edition. The content will be the same in the later editions but the chapter numbers may vary slightly.

Course Websites:
Brightspace: https://nyusom.brightspace.com/d2l/home/7256
Lab Manual: https://sites.google.com/a/med.nyu.edu/gs-neuroanatomy-laboratory/

Week 1
1/3 Introduction/ Development of the Nervous System (Eric)
Peripheral Nervous System
Readings: Chaps. 1 (Development), 2 (Cells), and 3 (PNS)

1/4 Spinal Cord (Eric)
Lab 1: Major subdivisions/Surface features (Eric)
Readings: Chaps. 5 (Spinal Cord), 19 (Gen Sensory Sys)

1/5 Spinal Cord/ Autonomic NS/ External Brainstem (Eric)
Readings: Chaps. 5 (Spinal Cord), 24 (Visceral)

1/6 Brainstem Nuclei and Pathways (Eric)
Lab 2: Spinal Cord (Eric)
Chaps. 6 (External Brainstem), 7 (Brainstem Nuclei) and 8 (Cranial Nerves)

Week 2
1/9 Test on lecture material through Brainstem Nuclei and Pathways
Cerebellum (Eric) NOTE Room is Coles 107
Chap. 10 (Cerebellum)

1/10 Neuroanatomical Methods: Classic (Wendy)
Lab 3: External Brainstem (Eric and Wendy)
Chap. 4 (Imaging Techniques/Methods)
1/11  Thalamus and Reticular Formation (Wendy)
   Lab 4: Brainstem Sections (Eric)
   Chaps. 9 (Reticular formation) and 11 (Diencephalon)

1/12  Limbic System and Hypothalamus (Wendy)
   Lab 5: Cerebrum and Cerebellum (Eric and Wendy)
   Chaps. 11 (Diencephalon) and 18 (Limbic System)

1/13  Introduction to Cerebral Cortex (Lila)
   Chaps. 13 (Topography of Cerebral Hemispheres) and 14 (Histology of Cerebral Hemispheres)

Week 3
1/16  MLK day, No Class

1/17  Internal Structure of the Cerebrum (Lila)
   Comparative Neuroanatomy: Human Vs Monkey (Wendy)

1/18  Basal Ganglia (Eric)
   Lab 6: Coronal sections (Eric and Lila)
   Chap. 12 (Corpus Striatum)

1/19  Practice Practical (Eric and Lila)
   Neuroanatomical Methods: human fMRI (Lila)
   Chap. 4 (Imaging Techniques/Methods)

1/20  Lab Practical Exam (Eric and Lila)

Week 4
1/23  Written Final Exam (Eric)  NOTE Room is Coles 107