

Course Schedule

Date	Topic	Reading Assignment	Instructor
Section I	Organization of the Central Nervous System		
9/5/07	Neurons/Glia and CNS organization	Chapter 1	Mermelstein
9/7/07	Brain Anatomy 101		TAs
9/10/07	Generation of the Electrical Potential	Chapters 2-4	Mermelstein
9/12/07	Ionic Currents	Chapters 2-4	Mermelstein
9/14/07	Action Potentials	Chapters 2-4	Mermelstein
9/17/07	Ion Channels and Transporters	Chapters 2-4	Mermelstein
9/19/07	Electrical Signaling	Chapters 2-4	Mermelstein
9/21/07	<i>Review Session 1</i>	Chapters 1-4	TAs
9/24/07	Synaptic Neurotransmission I	Chapter 5	Lanier
9/26/07	Synaptic Neurotransmission II	Chapter 6	Lanier
9/28/07	Neurotransmitters and Receptors	Chapter 6	Lanier
10/1/07	Intracellular Signaling I	Chapter 7	Lanier
10/3/07	Intracellular Signaling II	Chapter 7	Lanier
10/5/07	<i>Review Session 2</i>	Chapters 5-7	TAs
10/8/07	Exam #1		
Section II	Sensory Input and Motor Output: Perception of the Environment		
10/10/07	The Somatic Sensory System: Touch	Chapter 8	Mermelstein
10/12/07	The Somatic Sensory System: Pain	Chapter 9	Mermelstein
10/15/07	Auditory System	Chapter 12	Lanier
10/17/07	Vestibular System	Chapter 13	Lanier
10/19/07	<i>Review Session 3</i>	Chapters 8,9,12,13	TAs
10/22/07	Vision I	Chapter 10	Kofuji
10/24/07	Vision II	Chapter 11	Kofuji
10/26/07	Vision III	Chapter 11	Kofuji
10/29/07	The Chemical Senses	Chapter 14	Mermelstein
10/31/07	<i>Review Session 4</i>	Chapters 10,11,14	TAs
11/2/07	Exam #2		
11/5/07	Upper and Lower Motor Circuits	Chapters 15-16	Lanier
11/7/07	Cerebellum I: structure and function	Chapter 18	Lanier
11/9/07	Cerebellum II: Neurological disorders	Chapter 18	Lanier
11/12/07	Basal Ganglia I: structure and function	Chapter 17	Mermelstein
11/14/07	Basal Ganglia II: Neurological disorders	Chapter 17	Mermelstein
11/16/07	<i>Review Session 5</i>	Chapters 15-18	TAs
Section III	Neuronal Plasticity: The Changing Brain		
11/19/07	Early Brain Development	Chapter 21	Letourneau
11/21/07	Construction of Neural Circuits	Chapter 22	Letourneau
11/23/07	--Thanksgiving Holiday-No Class----		
11/26/07	Experience modification of circuits	Chapter 23	Letourneau
11/28/07	Short and Long-term plasticity	Chapter 24	Letourneau
12/3/07	Stem Cells		Letourneau
12/5/07	Brain Regeneration		Letourneau
12/7/07	<i>Review Session 6</i>	Chapters 21-24	TAs
12/10/07	Sex and the Brain I	Chapter 29	Mermelstein
12/12/07	Sex and the Brain II	Chapter 29	Mermelstein
12/xx/07	Final Exam		