

**Medical Neuroscience SMD 560  
Course Schedule 2008**

Week 1				
<u>Time</u>	<u>Topic</u>	<u>Lecturer</u>	<u>Section/Pages</u>	<u>Location</u>
<b><i>Tuesday, September 16, 2008</i></b>				
9:00–9:50 am	Course Organization and Expectations	Pearson		101 WH
<b><i>Basic Principles of Nervous System Structure and Function</i></b>				
10:00–10:50 am	Lecture: Review of Nervous System Histology	Ream	1: 1-35	101 WH
11:00–11:50 am	Lecture: Review of Synaptic Transmission	Rich	2: 1-13	101 WH
<b><i>Wednesday, September 17, 2008</i></b>				
Self-Directed Study- Time Equivalent: 1 hr lecture	<ul style="list-style-type: none"> <li>• Neuroanatomy Tutorial 1: Orientation to Regional Anatomy of the Nervous System (Use with Neuroanatomy Lab 2)</li> <li>• Neuroanatomy Tutorial 2: Introduction to Longitudinal Systems and Anatomical Localization</li> </ul>		3: 1-34	
Self-Directed Study- Time Equivalent: 1 hr lecture			4: 1-9	
9:00–9:50 am	Lecture: Cortical Localization of Function	Pearson	5: 1-27	101 WH
10:00–10:50 am	Lecture: Development of the Nervous System	Pearson	6: 1-42	101 WH
11:00–11:50 am	Lecture: Environment of the Brain	Olson	7: 1-31	101 WH
1:00-2:50 pm	Neuroanatomy Lab 1: Histology of the Nervous System	Staff		130 WH Labs
<b><i>Thursday, September 18, 2008</i></b>				
Self-Directed Study Time Equivalent: 1 hr lecture	<ul style="list-style-type: none"> <li>• Neuroanatomy Tutorial 3: Blood Supply to the Nervous System (Use with Neuroanatomy Lab 3)</li> </ul>		8: 1-25	
9:00–9:50 am	Lecture: Imaging the Nervous System	Pearson	9: 1-27	101 WH
10:00–10:50 am	Lecture: Neurovascular Pathology	Balko	10: 1-26	101 WH
11:00–11:50 am	Clinical Case Session 1: Stroke	Jacobs	11: 1-71	101 WH
1:00-2:50 pm	Neuroanatomy Lab 2: Regional Anatomy of the Nervous System-	Staff		130 WH Labs
1:00-1:30 pm	<ul style="list-style-type: none"> <li>• Review of Tutorial 1: Regional Anatomy</li> </ul>	Pearson		130 WH Labs
1:30-2:50 pm	<ul style="list-style-type: none"> <li>• Individual and Group Review with Faculty</li> </ul>	Staff		130 WH Labs

**Week 2**

<u>Time</u>	<u>Topic</u>	<u>Lecturer</u>	<u>Section/Pages</u>	<u>Location</u>
<b><i>Monday, September 22, 2008</i></b>				
9:00–11:50 am	Neuroanatomy Lab 3: Blood Supply to the Nervous System-	Staff		130 WH Labs
9:00 – 9:30 am	• Review of Tutorial 3: Blood Supply	Pearson		130 WH Labs
9:30-11:30 am	• Individual and Group Review w/ Faculty	Staff		130 WH Labs
11:30-11:50 am	• Audience Response Exercise	Pearson		130 WH Labs
<b><i>Tuesday, September 23, 2008      Somatosensory System</i></b>				
Self-directed Study Time Equivalent: 1 hr lecture	• Neuroanatomy Tutorial 4: Pathways Tested by the Sensory Exam (Use with Neuroanatomy Lab 4)		12: 1-16	
9:00– 9:50 am	Lecture: Somatosensation and Pain	Fyffe	13: 1-26	101 WH
10:00–10:50 am	Lecture: Neuropharmacology of Pain	Lucot	14: 1-8	101 WH
11:00–11:50 am	Lecture: Endogenous and Exogenous Opioids	Lucot	15: 1-11	101 WH
1:00-4:00 pm	Team Learning Session 1: Neurovascular Pathology	Koles/ Pearson/ Jacobs	16	101 WH
<b><i>Wednesday, September 24, 2008</i></b>				
8:00–8:50 am	Lecture: Local Anesthetics	Koerker	17: 1-58	101 WH
9:00–11:50 am	Neuroanatomy Lab 4: Pathways Tested by the Sensory Exam	Staff		130 WH Labs
9:00 – 9:30 am	• Review of Tutorial 4: Sensory Pathways	Pearson		130 WH Labs
9:30-11:30 am	• Individual and Group Review w/ Faculty	Staff		130 WH Labs
11:30-11:50 am	• Audience Response Exercise	Pearson		130 WH Labs
<b><i>Thursday, September 25, 2008</i></b>				
9:00–9:50 am	Lecture: Injury Responses: Recovery of Function	Rich	18: 1-14	101 WH
10:00–10:50 am	Clinical Case Session 2: Disorders of Somatic Sensation	Rich	19: 1-18	101 WH
11:00–11:50 am	Clinical Case Session 3: Headache	Arudchentan	20: 1-27	101 WH

**Week 3**

<u>Time</u>	<u>Topic</u>	<u>Lecturer</u>	<u>Section/Pages</u>	<u>Location</u>
<b>Monday, September 29, 2008</b>				
9:00 am (start time revised)	<b>Exam I (Weeks 1 and 2)</b>		261-271-281	WH
<b>Tuesday, September 30, 2008</b>				
	<b>Motor System</b>			
Self-directed Study Time Equivalent: 1 hr lecture	<ul style="list-style-type: none"> <li>• Neuroanatomy Tutorial 5: Pathways Tested by the Reflex, Motor, Coordination and Gait Exams (Use with Neuroanatomy Lab 5)</li> </ul>		21: 1-25	
	Hallmarks and Components		22: 1-5	
9:00-9:50 am	Lecture: Introduction to Motor Systems and Neural Control of Muscle Force	Cope	23: 1-15	101 WH
10:00-10:50 am	Lecture: Spinal Cord Motor Systems and Clinical Neurophysiology Demonstration	Cope/Rich	24: 1-14	101 WH
11:00-11:50 am	Lecture: Motor Areas of the Cerebral Cortex	Cope	25: 1-12	101 WH
<b>Wednesday, October 1, 2008</b>				
9:00-9:50 am	Lecture: Cerebellum	Cope	26: 1-11	101 WH
10:00-10:50 am	Lecture: Basal Ganglia	Cope	27: 1-17	101 WH
11:00-11:50 am	Lecture: Antiparkinson Drugs/Antispasmodics	Lucot	28: 1-5	101 WH
<b>Thursday, October 2, 2008</b>				
9:00-11:50 am	Neuroanatomy Lab 5: Pathways tested by the Reflex, Motor, Coordination and Gait Exam	Staff		130 WH Labs
9:00-9:30 am	<ul style="list-style-type: none"> <li>• Review of Tutorial 5: Motor Pathways</li> </ul>	Pearson		130 WH Labs
9:30-11:30 am	<ul style="list-style-type: none"> <li>• Individual and group review w/faculty</li> </ul>	Staff		130 WH Labs
11:30-11:50 am	<ul style="list-style-type: none"> <li>• Audience Response Exercises</li> </ul>	Pearson		130 WH Labs
1:00-2:50 pm	Clinical Case Session 4: Disorders of Movement	Rich	29	101 WH

<b>Week 4</b>				
<u>Time</u>	<u>Topic</u>	<u>Lecturer</u>	<u>Section/Pages</u>	<u>Location</u>
<b>Monday, October 6, 2008</b>		<b>Brainstem and Cranial Nerves</b>		
Self-directed Study Time Equivalent: 2 hrs lecture	• Neuroanatomy Tutorial 6A: See Table 1 - Reading Assignments for the Special Senses of Vision & Hearing: (Use with Neuroanatomy Lab 6)		30	
Self-directed Study Time Equivalent: 1 hr lecture	• Neuroanatomy Tutorial 6B: Central Visual Pathways and Visual Field Deficits (Use with Neuroanatomy Lab 6)		31: 1-19	
Self-directed Study Time Equivalent: 1 hr lecture	• Neuroanatomy Tutorial 6C: Control of Pupil Size and Lens Shape (Use with Neuroanatomy Lab 6)		31: 20-28	
9:00-9:50 am	Lecture: The Brainstem, Reticular Formation and Consciousness	Pearson	32: 1-23	101 WH
10:00-10:50 am	Lecture: Vestibular Processing and Connections	Pearson	33: 1-17	101 WH
11:00-11:50 am	Lecture: Control of Eye Movement	Pearson	34: 1-25	101 WH
<b>Tuesday, October 7, 2008</b>				
9:00-9:50 am	Clinical Case Session 5: Neuro-Ophthalmic Disorders	Warwar	35: 1-53	101 WH
10:00-10:50 am	Clinical Case Session 6: Dizziness and Disequilibrium	Rich	36: 1-9	101 WH
11:00-11:50 am	Lecture: Intracranial Pressure	Olson	37: 1-50	101 WH
<b>Wednesday, October 8, 2008</b>				
9:00-9:50 am	Pathology Lecture: Traumatic Lesions	Murphy	38: 1-55	101 WH
10:00-10:50 am	Pathology Lab 1: Head Trauma	Path Staff		130 WH Labs
11:00-11:50 am	Discussion/Review of Vision and Hearing	Pearson/ Fyffe		101 WH
<b>Thursday, October 9, 2008</b>				
9:00-11:50 am	Neuroanatomy Lab 6: Systems tested by the Cranial Nerve Examination	Staff		130 WH Labs
9:00-9:30 am	• Review of Tutorial 6: Visual Pathways and Pupil Control	Pearson		130 WH Labs
9:30-11:00 am	• Individual and group review w/facultyIn-lab	Staff		130 WH Labs
11:00-11:50 am	• Discussion: Brain Death	Rich	39: 1-5	130 WH Labs

<b>Week 5</b>				
<u>Time</u>	<u>Topic</u>	<u>Lecturer</u>	<u>Section/Pages</u>	<u>Location</u>
<b><i>Monday October 13, 2008</i></b>				
8:00-8:50 am	Pathology Lecture: CNS Neoplasms	Sequeira	40: 1-45	101 WH
9:00-9:50 am	Pathology Lab 2: CNS Neoplasms	Path Staff		130 WH Labs
10:00-10:50 am	Pathology Lecture: Demyelination and Toxic-Metabolic Disorders	Sequeira	41: 1-27	101 WH
11:00-11:50 am	Pathology Lab 3: Demyelination and Toxic-Metabolic Disorders	Path Staff		130 WH Labs
1:00-3:50 pm	Team Learning Session 2: Neurologic Localizations	Pearson/ Rich	42	101 WH
<b><i>Tuesday, October 14, 2008</i></b>				
9:00-9:50 am	Clinical Case Session 7: Epilepsy	Kumar	43: 1-24	101 WH
10:00-10:50 am	Lecture: Anticonvulsants	Lucot	44: 1-8	101 WH
11:00-11:50 am	Pathology Lecture: CNS Infections	Murphy	45: 1-59	101 WH
<b><i>Wednesday October 15, 2008</i></b>				
9:00-9:50 am	Lecture: Pediatric Neurology	Kumar	46: 1-26	101 WH
10:00-10:50 am	Pathology Lecture: Developmental/Perinatal Disorders	Balko	47: 1-40	101 WH
11:00-11:50 am	Pathology Lab 4: Developmental/Perinatal Disorders	Path Staff		130 WH Labs
<b><i>Thursday, October 16, 2008</i></b>				
9:00-11:50 pm	Team Learning Session 3: CNS Infections	Koles/Elder	48	101 WH
<b>Week 6</b>				
<u>Time</u>	<u>Topic</u>			<u>Location</u>
<b><i>Monday, October 20, 2008</i></b>	<b>Exam II (Comprehensive over Weeks 1-5)</b>			261-271-281 WH
9:00 am (start time revised)				