

<b>Course objective</b>	<b>Geisel competency</b>	<b>Course Objective</b>
1	1a	Define the terms commonly used to describe the nervous system and its functions.
2	1a, 1b	Explain the cellular and molecular basis for excitability, conductivity, synaptic function and plasticity of the nervous system.
3	1a	Identify and describe the major features of the brain that are identifiable on gross inspection and in coronal, axial and sagittal section.
4	1a	Identify the organization and distribution of the major blood vessels of the brain and describe the regulation of blood flow and the transit of nutrients into and out of the brain.
5	1a, 1b	Describe general concepts in development and repair of functions of the nervous system and consequences of disruption of these processes.
6	1a	Explain the formation and flow of cerebrospinal fluid.
7	1a	Describe the major tracts of the brain and identify the functions and the consequences of damage to the tracts.
8	1a	Describe the major components of the sensory systems of the nervous system and predict the consequences of damage to these systems.
9	1a, 1b	Describe the major components of the motor systems and predict the consequences of damage to these systems.
10	1a, 1b	Describe the substrates for the major behavioral and cognitive functions of the brain and predict the consequences of damage to these systems.
11	1a, 1b	Describe the control of integrated functions of the brain including neuroendocrine function, autonomic control, emotional regulation, appetite, and sleep.
12	1a, 1b, 2g	Describe techniques and tools in study of the structure and function of the brain including neurophysiological and neuroimaging.
13	1a	Practice and demonstrate systematic problem-solving skills.
14	3f, 3h	Practice communication of neuroscience concepts with fellow students and faculty.
15	4b	Practice team skills, including respectful, responsible and professional participation.
16	4f, 4h	Take responsibility for his- or her-own medical education and accept responsibility for his/her own actions.
17	5a	Search efficiently for and obtain recent, high quality, relevant medical information and scientific literature to solve problems.
18	5b	Read critically, evaluate, and assess medical information and scientific literature about important biomedical topics and questions.
19	3h, 4l	To help colleagues by contributing constructive suggestions during peer review.