



## HHA 302: NEUROANATOMY

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### COURSE DESCRIPTION

Neuroanatomy is the science and biology of the nervous tissue, organs and structures. It encompasses the microscopic organization, gross structures and connections of the peripheral, autonomic and central nervous system.

### COURSE CONTENT

Cranial cavity: Compartments and contents.

Meninges: Layers, sublayers and neurovascular supply. Extensions.

Cerebrum: Lobes, gyri and sulci. Connecting fibres. Functional areas. Blood supply and blood brain barrier.

Basal ganglia: Components, connections, functions and disorders.

Connecting fibres: Evolution and significance of commissural, association and projection fibres.

Parts and composition of corona radiata and internal capsule.

Ventricular system: Topography of ventricles and cisterns. Cerebrospinal fluid. Communication and reabsorption.

Diencephalon: Evolution, topography, connections and functions of the thalamus, epithalamus, hypothalamus, subthalamus and metathalamus.

Brain stem: Evolution, topography, nuclei and tracts of the mid brain, pons and medulla. Vascular syndromes and brain death.

Cerebellum: Evolution, topography, nuclei, connections, functions and disorders.

Tractology: Evolution, functional organization, localization, connections of ascending and descending tracts of the spinal cord.

Reticular formation: Components, connections and functions.

Spinal cord: Evolution, topography, protection, blood supply, tracts, enlargements and extents.

Peripheral nervous system: Origins, course, relations, distribution and disorders of cranial and spinal nerves.

Autonomic nervous system: Components, topographic and functional organization. Regulation and disorders.

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