

The Brain and Central Nervous System  
EDS 130 Lecture # 8

Major Component of Central Nervous System	Major Components of the Peripheral Nervous System
---	---

<p>The CNS begins to develop in the third week of gestation The three layers form:</p> <p>The tail becomes the: The broader portion is the:</p>	Three distinct subdivisions of the brain:
---	---

Genetic Factors	Environmental Factors	Other Factors

Six Stages of Brain Development

Neuration:	Neuronal Proliferation	Neuronal Differentiation and Organization
Prosencephalic Development	Neuronal Migration	Myelination

### Cerebral Hemispheres

Frontal Lobe	Occipital Lobe
Parietal Lobe	Temporal Lobe

### Other Brain Structures

Basal Ganglia and Thalamus	The Brainstem
The Cerebellum	The Spinal Cord

### The Peripheral Nervous System

The Peripheral Nervous System	
The Somatic Nervous System	The Autonomic Nervous System

Hydrocephaly

CT Scan	MRI	SPECT or PET	<i>f</i> MRI

Notes: