

Chapter 7 - The Nervous System

* The master controlling and communicating system of the body.

- 1) Monitor changes internally and externally – stimuli – sensory input
- 2) Integration – processes and interprets this input
- 3) Motor Output – effects a response 1) Red light (input) 2) Red light means stop 3) your foot steps on the brake (motor output)

Nervous System work closely with the Endocrine System to maintain homeostasis

I. Organization of the Nervous System

A. Structural Classification -

- Nervous System – 2 Subdivisions
 - 1 – Central Nervous System (CNS) – made up of the brain and spinal cord. Interpret incoming information and issue instructions.
 - 2 – Peripheral Nervous System (PNS) – all of the nerves outside of the CNS
 - ex – spinal nerves – extend from the spinal cord. Link all parts of the body.