**Questions to answer:**

1. Explain what all sensory receptors have in common.
2. How does the human brain interpret and render the surroundings and state of the body?
3. Why are reflex actions adapted to happen without integration by the brain?
4. Explain the cognitive functions associated with each of the following brain structures:
   1. Medula & Pons
   2. Diencephalon
   3. Cerebellum
   4. Cerebrum
5. How is muscle structure related to muscle function?
6. Why is calcium necessary for muscle contraction?
7. How does the nervous system control skeletal muscles?

**Things you should make sure you understand:**

**(feel free to ask questions about them in class)**

* How all sense organs function to generate sensory inputs for the nervous system.
* The structure and function of the following divisions of the human nervous system:
  + peripheral nervous system vs. central nervous system
  + autonomic nervous system vs. motor nervous system
  + parasympathetic vs. sympathetic nervous system
* The three major approaches taken to skeletal systems in the animal kingdom.  Explain advantages and disadvantages of each.
* The sliding filament model of muscle contraction.  Label all proteins involved.