

## 9.14

### **Class #27-28: Hypothalamus and Limbic System** **Monday April 11; Wednesday April 13, 2005**

*Questions based on lectures:*

1. Compare the two arousal systems of the midbrain.
2. What homeostatic mechanisms are associated with the hypothalamus? (Give examples.)
3. Give specific examples of appetitive and of consummatory behavior.
4. Where would you expect hunger and satiety cues to influence the CNS? Why?
5. What is evidence that attack motivation in cats is separate from hunger?
6. What is a major “reward pathway” in the mammalian CNS?
7. The hypothalamus has two major divisions, medial and lateral. What is a major difference between these two divisions?
8. Describe the basic Papez’ circuit.
9. How are the Papez’ circuit structures connected to non-limbic neocortical areas?
10. What is the “basal forebrain”? Name some structures of this region.
11. Describe two ways that the hypothalamus can influence the neocortex.