**Chapter 4**

**VISUAL SYSTEM: THE BRAIN**

Assignment 1

This may be assigned as homework or as an in-class activity. It may be handed in or presented in class.

Trace one of the visual pathways below. Note all significant features of the path and any relevant changes to the nature of the cells’ response, e.g., receptive fields:

* From the eye to the primary visual cortex (V1)
* The dorsal vs. the ventral pathways
* From the eye to the Superior Colliculus

Assignment 2

These questions may be assigned as homework, for in-class discussion, or on a class forum:

1. What does the organization of hypercolumns (see [ISLE 4.4](http://isle.hanover.edu/Ch04Brain/Ch04Hypercolumn.html)) tell us about how the visual system processes the visual world?
2. There is no one place in the brain where all visual information converges. What does this tell us about how the brain operates?
3. Why might we divide visual information between the dorsal (where) and ventral (what) pathways?