

How Does Your Nervous System Work?

- **2.1** Explain how neurons support the three functions of the nervous system.
- **2.2** Explain how neurons communicate during the three phases of neural communication.
- **2.3** Contrast agonists and antagonists in terms of their effects on neurotransmitters.

In addition, describe the functions of the seven common neurotransmitters.

How Do the Parts of Your Brain Function?

- 2.4 Summarize the historical and contemporary methods used to study the functions of different brain regions.
- **2.5** Summarize the functions of the hindbrain and midbrain.
- **2.6** Explain one major function for each of the four subcortical brain regions.
- **2.7** Compare the major functions of the four brain lobes.
- 2.8 Explain how the left hemisphere interprets the actions of the right hemisphere (and vica versa).
- 2.9 Summarize what you should do if you think you have a learning disability.

How Does Your Brain Communicate with Your Body?

- **2.10** Classify the subdivisions of the peripheral nervous system.
- **2.11** Explain how the endocrine system and the nervous system work together to regulate psychological activity.

How Do Nature and Nurture Affect Your Brain?

- **2.12** Explain the differences between genotype and phenotype
- **2.13** Explain how studying twins helps us understand the roles of genes and the environment in producing phenotypes.
- **2.14** Compare the three types of brain plasticity.

In addition, you should be able to give examples and elaborate on the major concepts from the chapter.