

Anatomy and Physiology

Chapter 1: Organization of the Body

Science and Society

- Science involves logical inquiry based on experimentation (Figure 1-1)
 - ▷ Hypothesis—idea or principle to be tested in experiments
 - ▷ Experiment—series of tests of a hypothesis; a controlled experiment eliminates biases or outside influences
 - ▷ Theory—a hypothesis that has been proved by experiments to have a high degree of confidence
 - ▷ Law—a theory that has an unusually high level of confidence

Anatomy and Physiology

- Anatomy and physiology are branches of biology concerned with the form and function of the body
- Anatomy—science of the structure of an organism and the relationship of its parts
 - ▷ Gross anatomy—study of the body and its parts relying only on the naked eye as a tool for observation (Figure 1-2)
 - ▷ Microscopic anatomy—study of body parts with a microscope
 - Cytology—study of cells
 - Histology—study of tissues
 - ▷ Developmental anatomy—study of human growth and development
 - ▷ Pathological anatomy—study of diseased body structures
 - ▷ Systemic anatomy—study of the body by systems
- Physiology—science of the functions of organisms; subdivisions named according to:
 - ▷ Organism involved—human or plant physiology
 - ▷ Organizational level—molecular or cellular physiology
 - ▷ Systemic function—respiratory physiology, neurophysiology, or cardiovascular physiology

Language of Science and Medicine

- Scientific terms and others based on Latin or Greek word parts
 - ▷ Avoids use of *egocentric* (terms based on a person's name)

Levels of Organization

- Chemical level—basis for life
 - ▷ Organization of chemical structures separates living material from nonliving material
 - ▷ Organization of atoms, molecules, and macromolecules results in living matter—e.g., called cytoplasm

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