

Montgomery County Community College  
HCP/MAS/BIO 104  
Human Body in Health and Disease  
3-3-0

**COURSE DESCRIPTION:**

This introductory course provides students with the essentials of anatomy, the basic functions of the human body and the effects of disease using a systems approach. The normal structural organization and processes of each body system, common diseases,



- iii. Current Medical Treatments
- 5. Circulation and Body Defense
  - a. Blood
    - i. Structure
    - ii. Functions
    - iii. Blood Types
    - iv. Blood Disorders
    - v. Blood Studies
  - b. Heart
    - i. Structures
    - ii. Heart Function
    - iii. Repair and Healing
    - iv. Common Disorders
    - v. Current Medical and Surgical Treatments
  - c. Blood Vessels and Circulation
    - i. Structures
    - ii. Circulation- Blood Flow, Pulse, and Blood Pressure
    - iii. Common Disorders
    - iv. Current Medical and Surgical Treatments
  - d. Lymphatic System
    - i. Structures
    - ii. Functions
    - iii. Common Disorders and Current Treatments
  - e. Immunity
    - i. Innate and Adaptive
    - ii. Immune Disorders
- 6. Energy Supply and Use
  - a. Respiratory System
    - i. Structures
    - ii. Respiration
    - iii. Common Disorders and Current Treatments
  - b. Digestive System
    - i. Structures
    - ii. Functions
    - iii. Common Disorders and Current Treatments
  - c. Urinary System
    - i. Structures
    - ii. Functions
    - iii. Common Disorders and Current Treatments
- 7. Perpetuation of Life
  - a. Reproductive System
    - i. Male Structures and Functions
    - ii. Common Disorders and Current Treatments
    - iii. Female Structures
    - iv. Female Reproductive Cycle
    - v. Common Disorders and Current Treatments

