Integumentary System

Three Layers of Human Skin

- Epidermis
- Dermis
- Subcutaneous Layer

Functions of the Skin

- Protection of deeper tissue from:
  - Chemicals, bacteria, bumps, and drying
- Regulation of body temperature
- Synthesis of Vitamin D
Structures of the Skin

- Epidermis
  - Stratified squamous epithelium
    - keratin
  - Melanocytes
    - melanin
- Dermis
  - Sense receptors
    - Pain, touch, pressure, hot, and cold

Appendages of the Skin

- Cutaneous glands
  - Sebaceous (oil) glands
  - Sweat glands
- Hairs and hair follicles
- Nails
Negative Feedback Control — Overview

Imbalances of the Skin
- cold sores
- impetigo
- psoriasis

Skin Cancer
- basal cell carcinoma
- squamous cell carcinoma
- malignant melanoma
The End