Integumentary System

Functions of the Skin

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

- **Epidermis**
  - Stratified squamous epithelium
    - Keratin
    - Keratinization
  - Melanocytes
    - Melanin

- **Dermis**
  - Sense receptors
    - Pain, touch, pressure, hot, and cold

Appendages of the Skin

1. Cutaneous glands
   - Sebaceous (oil) glands
   - Sweat glands
2. Hairs and hair follicles
3. Nails
Skin Color

Determined by:
- melanin
- carotene
- blood flow

Burns

Partial thickness burn
- first degree burn
- second degree burn

Full thickness burn
- third degree burn

Imbalances of the Skin

cold sores
impetigo
psoriasis
Skin Cancer

basal cell carcinoma

squamous cell carcinoma

malignant melanoma

The End