

Readings from Hoefnagels, Mariëlle. 2009. Biology, 1st ed.; McGraw-Hill, NY:  
Ch. 31 (Muscles & skeleton) pp 635-646

**Human skeletal system**

Osteoblasts, osteocytes, compact bone, spongy bone, red bone marrow

Axial skeleton

Skull, vertebral column, rib cage

Appendicular skeleton

Pectoral girdle & forelimbs, pelvic girdle & hindlimbs

Joints

Synovial joint, bursa, ligament

Calcium & osteoporosis

**Human muscular system**

Muscles, tendons, contraction, antagonism

Myofibrils, sarcomeres, sliding filament model, ATP

Innervation of muscles, calcium in muscle contraction