

Bio 135 Lab: Bones lab two, Appendicular Skeleton and joints:

- Objectives:
 - Learn the bones of the Appendicular Skeleton and the associated markings
 - Learn the types of joints, their structure and the motions they allow.

- Pre Lab Activities:
 - Go to the virtual lab and review materials there on the appendicular skeletal system.

- Lab Activity
 - Lecture over the types of bones, joints and motions of the appendicular skeleton
 - Review the list of bones for the appendicular skeleton and learn them and their structures by visual comparison with images in your text and in the class.
 - Review bone models and identify the structures listed on the following pages

Bio 135

Bones and Markings of the Appendicular Skeleton

UPPER LIMB

Clavicle

Scapula*

- acromion process
- coracoid process
- glenoid fossa (cavity)
- lateral border
- medial border
- spine

Humerus*

- Head
- greater tubercle
- lesser tubercle
- lateral epicondyle
- medial epicondyle
- olecranon fossa
- coronoid fossa
- anatomical neck
- surgical neck

Radius

- head
- radial tuberosity
- styloid process

Ulna

- coronoid process
- olecranon process
- radial notch
- trochlear notch
- styloid process

Carpals

Metacarpals

Phalanges

LOWER LIMB

Coxal (or Innominate) Bone*†

- acetabulum

Ilium

- iliac crest

Ischium

Pubis

- symphysis pubis (pubic symphysis)

Femur*

- head
- neck
- greater trochanter
- lesser trochanter
- patellar surface
- lateral condyle
- medial condyle

Patella

Tibia*

- anterior crest (shin)
- lateral condyle
- medial condyle
- medial malleolus

Fibula

- head
- lateral malleolus

Tarsals

Calcaneus

Talus

Metatarsals

Phalanges