Week 7 Lab: Joints

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Chamberlain University College of Nursing

BIOS 251: Anatomy and Physiology Lab

Professor Zille

[redacted]

Week 7 Lab: Joints

Analysis of Joints:

Select the **synovial joints** and follow these steps to analyze all the structures listed below.

a. **Femur**: It is the body's longest and strongest bone and is essential for standing, walking, and supporting muscles, tendons, ligaments, and the circulatory system.

b. **Tibial collateral ligamen**t: This is a broad, strong band that primarily stabilizes the knee joint in the coronal plane on the medial side.

c. **Joint capsule**: Its purpose is to support the joint, distribute the biomechanical load, and protect it by limiting its normal range of motion.

d. **Suprapatellar bursa**: It allows unrestricted movement of the quadriceps tendon over the distal femur.

e. **Tibia**: As the second-largest bone in the body, the tibia's primary role in the leg is to carry weight, bearing most of the load.

f. **Medial meniscus**: The medial meniscus's primary function is to reduce the amount of stress on the knee joint.