Bony Landmarks of the Lower Extremity

*NOTE: These bony landmarks have an associated muscle(s) that attaches there, form part of a joint, or have neurovascular structures running through them. You should be familiar with the associated structures for the bony landmarks in this chart. Many of these landmarks are the same structures listed in the muscle charts, so in most cases, this is simply a different way to study the same material.

This is NOT an inclusive list. You should be able to identify all landmarks listed on the list of terms for lab 1.

Bone	Bony Landmark	Associated Structures
llium	Iliac fossa	Origin: iliacus muscle
	Anterior superior iliac spine	Origin: sartorius
	Anterior inferior iliac spine	Origin: rectus femoris
	Greater sciatic notch	Becomes the greater sciatic foramen as the sacrospinal ligament closes the
		notch. The piriformis passes through it. The superior gluteal vessels & nerve
		pass above the piriformis in this foramen, & the inferior gluteal vessels &
		nerves & sciatic nerve pass inferior to the piriformis.
	Ischial tuberosity	Origin: semimembranosus, semitendinosus, long head of the biceps femoris,
		and the hamstring part of the adductor magnus (hamstrings)
	Lesser sciatic notch	Becomes the lesser sciatic foramen when the sacrotuberal ligament closes
Ischium		the notch. Transmits the obturator internus tendon, the nerve to the
ischium		obturator internus, and other vessels and nerves to the pelvis.
	Lunate surface	Articular surface of the acetabulum. Acetabulum is the articular surface of
		the pelvis that articulates with the head of the femur, and it is formed by all
_		three bones. Definitely be able to identify the acetabulum!
Pubis	Obturator foramen	Obturator artery, vein, and nerve pass through it. (ischium and pubis)
	Head	Articulates with the acetabulum
	Fovea	Attachment site for the ligament of the head of the femur
	Greater trochanter	Insertion: gluteus medius and gluteus minimus
		Origin: vastus lateralis
	Lesser trochanter	Insertion: psoas major and iliacus muscles as the iliopsoas
	Gluteal tuberosity	Insertion: gluteus maximus
	Linea aspera	Origin: vastus lateralis, vastus medialis, & short head of biceps femoris
Femur		Insertion: adductor longus, adductor brevis, hamstring part adductor magnus
	Medial & lateral condyles	Articular surfaces, articulate with the tibia
	Medial epicondyle	Attachment site for the medial collateral ligament (MCL)
		Origin: medial head of the gastrocnemius
	Lateral epicondyle	Attachment site for the lateral collateral ligament
		Origin: lateral head of the gastrocnemius
	Intercondylar fossa	Attachment site for the cruciate ligaments of the knee
	Patellar surface	Articular surface, articulates with the patella
	Medial & lateral condyles	Articular surfaces, articulate with the tibia
	Fibular articular facet	Articular surface, articulates with the fibula
Tibia	Tibial tuberosity	Insertion: quadriceps muscle group
	Gerdy's tubercle	Insertion: iliotibial tract (band)
	Pes anserine insertion	Insertion: semitendinosus, sartorius, and gracilis
	Medial malleolus	Attachment site for ligaments of the talocrural (ankle) joint
Fibula	Head	Insertion point for the biceps femoris
	Lateral malleolus	Attachment site for ligaments of the talocrural (ankle) joint

***You do not need to memorize the associated structures for these bony landmarks, but just in case you are wondering, here they are. You ARE responsible for identifying these landmarks.

Bone	Bony Landmark	Associated Structures
llium	lliac crest	Origin: gluteus maximus, gluteus medius, tensor fasciae latae
	Posterior superior iliac	Ligament attachment site
	spine	
	Posterior inferior iliac	Ligament attachment site
	spine	
Ischium	Ischial spine	Attachment point for the sacrospinous ligament
	Superior rami	Forms part of the obturator foramen
	Inferior rami	Origin: adductor brevis, adductor part of the adductor
Dubia		magnus, and gracilis; Forms part of the obturator foramen
Pubis	Pubic crest	Attachment site for muscles of the abdominal wall
	Pubic tubercle	Attachment site for the inguinal ligament
	Pectineal line	Origin: pectineus muscle.
	Neck	Weakest part of the femur, attaches head to shaft
Femur	Medial & lateral	Extensions of the linea aspera, site of muscle attachment
	supracondylar lines	