Syllabus

PRIMATE EVOLUTION:
- Introduction to Primates
- Human Evolution

THE UPPER LIMB:
- Pectoral Girdle & Shoulder
- Elbow & Forearm
- Wrist & Hand

SKULL & CNS
- Skull
- Evolution of the Dentition
- Brain & CNS

THE BACK & LOCOMOTION
- Vertebral Column & Back Muscles
- Primate Locomotion

THE PELVIS & LOWER LIMB
- Pelvis
- Hip Joint & Thigh
- Knee Joint & leg
- Ankle & Foot

Recommended Reading

- Textbook: Kapit, W. and Elson, L.M. The Anatomy Coloring Book. Addison-Wesley. 2001
- Reference books (Not Compulsory:) Aiello, L and Dean, C. An Introduction to Human Evolutionary Anatomy. Academic Press 1990. Zilman, A.L.
- The Human Evolution Coloring Book. Barnes & Noble. Sydney, 1982

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School of Medical Sciences

Anatomy & Histology

For more information

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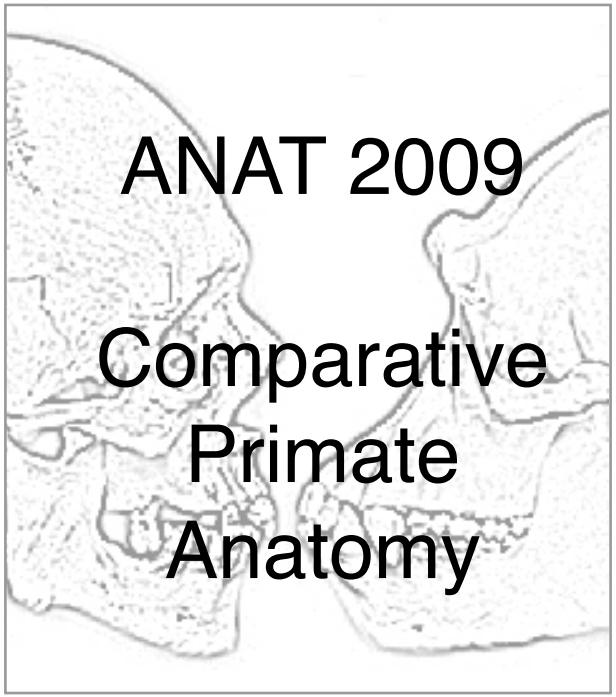
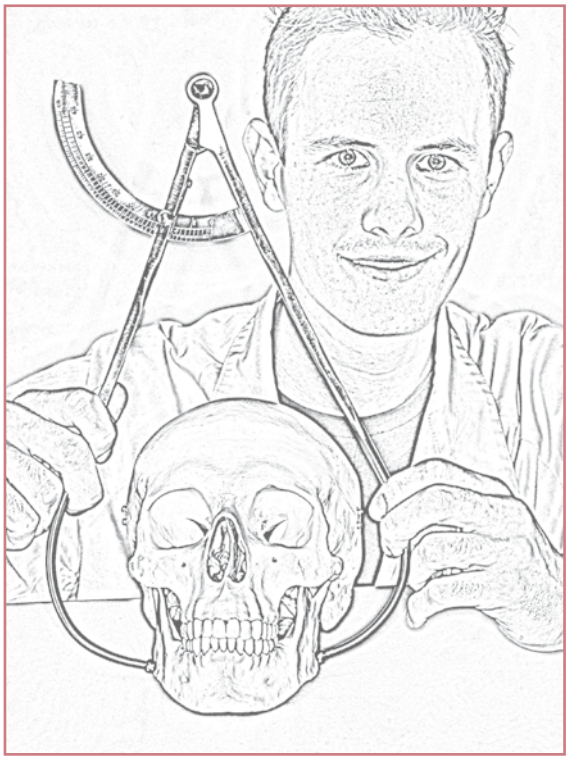


ANAT 2009

Comparative Primate Anatomy

CRICOS: 00026A

The University of Sydney



Unit Of Study

Intermediate (offered in semester 2)
(6 credit points)

This unit of student covers the musculo-skeletal anatomy of the human body with particular emphasis on human evolution and comparisons with apes and fossil hominids. The topics covered include the versatility of the human hand, in manipulation and locomotion, bipedalism, climbing and brachiation in apes, and the change in pelvic anatomy associated with bipedalism and obstetric consequences.

Prerequisites

36 credit points including 12 credit points of Junior Biology (BIOL) or Junior Psychology or Junior Archaeology

Learning Goals & Outcomes

GOALS:

- To gain an understanding of human anatomy. The skull and central nervous system will be introduced but there will be an emphasis on musculo-skeletal anatomy.
- To introduce theories of human evolution.
- To present a comparative approach to human anatomy by examining the similarities and differences in human and other primate anatomy (especially pongids/apes.)
- To use the above knowledge obtained to understand the unique physical adaptations of modern humans.
- To encourage critical thinking - especially with regard to human origins.
- To encourage the ability to make testable predictions of function based on structural observations

OUTCOMES:

Students will be assessed on their ability to;

1. Identify human, ape and fossil bones and joints.
2. Identify detailed features on bones.
3. Identify human muscles.
4. Identify major structures of the human central nervous system.
5. To have an understanding of the differences between the human and ape anatomy and relate these to differences in forms of locomotion and in manipulation.
6. Show an understanding of the theories of human evolution.

Timetable

N.B. - Please check online timetable for latest details as times & locations vary

Monday; [L]

Tuesday OR Wednesday; [P] Anatomy Tutorial Rooms

Lectures = [L] - Practical classes = [P]

Class Location

- Anatomy Tutorial rooms: check location on notice boards on level 4 outside the Anatomy service room E428, Anderson Stuart building, Eastern avenue, Main campus

Gown & Glove Policy

This course has a gown & glove policy for the tutorial classes. This course also recommends vaccinations. Please see the Anatomy website for details.

Attendance

It is a requirement of this unit that students attend no less than 80% of all tutorials and practical classes.