

School of Medical Sciences

Anatomy & Histology

For more information

Anatomy & Histology

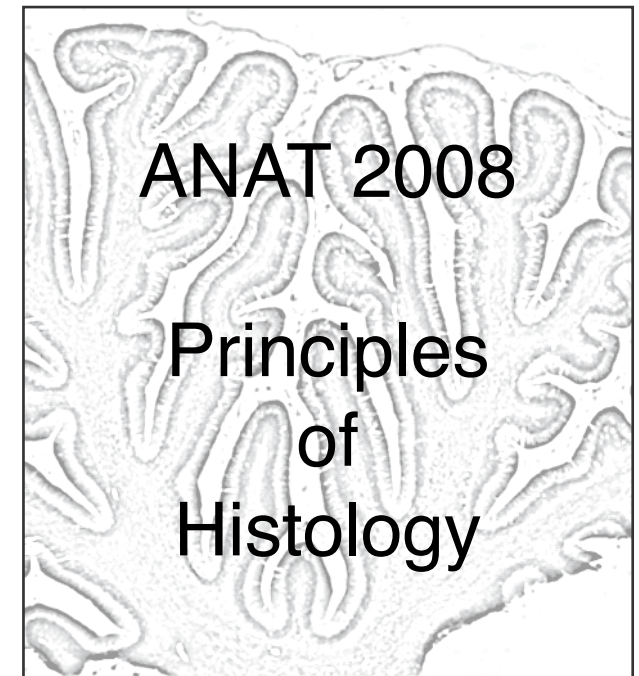
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Recommended Reading

- Textbook: Ross & Pawlina (2006) Histology - A Text and Atlas, 5th Ed.
- Reference Books: Alberts B et al. Molecular Biology of the Cell. Garland: N.Y., 1994.

Author: Laura Lindsay, November. 2009



Course Coordinator

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The University of Sydney



Unit Of Study

Intermediate (offered in semester 1)

ANAT2008 Principles of Histology
(6 credit points)

Prerequisites

12 credit points of Junior Biology or Junior Psychology.
The completion of MBLG (2001 or 2101 or 2901) is highly recommended.

Learning Goals & Outcomes

GOALS:

This Unit of Study examines the structure of human cells, tissues and organ systems at the light and electron microscopic levels. The way the body is constructed from the cellular to the organ levels and how different tissue types contribute and interact in the body are key themes of the course. Gaining an understanding of these themes is the major learning goal. Instruction also includes an introduction to the practical applications of histology and the techniques involved and the relationship between histology and anatomy

OUTCOMES:

By the end of this unit the students will have:

- a thorough understanding of the structure of a range of human cells, tissues and organ systems.
- a firm basis of knowledge for further in-depth study in human biology.
- gained an understanding of the application of histology and specific techniques in current research.
- gain an appreciation of the link between histology and anatomy

Timetable

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

Monday; 9-10am [L]

Tuesday; 11am-1pm [P]

Wednesday;

9-10am [L]

11am-1pm [P]

2-4pm [P]

Friday; 2-4pm [P]

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

Class Location

- [L] T.B.A. Please check online locations of lectures - as these often vary
- [P] Leeuwenhoek [Teaching 1]: Room W201, Anderson Stuart Bldg., Eastern avenue, Camperdown campus

Syllabus

CELLS AND TISSUES:

Cell Biology
Cell Biology and Use of Light Microscope
Epithelial Cells & Tissues
Connective Tissues
Cartilage & Bone
Immune System
Blood & Blood Vessels
Muscle
Nervous Tissue
Cell Fates & Tissue Interactions
Current Trends in Histology

CELL & TISSUE SPECIALISATIONS IN ORGAN SYSTEMS:

Alimentary System
Liver
Pancreas
Gall Bladder