

# LF134-15 Anatomy and Histology

**26/27**

**Department**

Life Sciences

**Level**

Undergraduate Level 1

**Module leader**

Ian Edwards

**Credit value**

15

**Module duration**

10 weeks

**Assessment**

Multiple

**Study location**

University of Warwick main campus, Coventry

---

## Description

### Introductory description

How physiology is manifested and observed at a cellular level will be explored in this module through an introduction to the field of Anatomy and Histology.

The course is aimed primarily at those who already have A-level Biology and who are embarking on a cell- and molecularly-oriented Biology degree, and who may wish to pursue physiological and biomedical subjects in future years.

[Module web page](#)

### Module aims

This module offers an overview of animal biology, explaining the evolutionary reasons for adapted and shared anatomy. How these are manifested and observed at a cellular level will be explored. The module is intended to broaden student's biological background and to support second and third year modules.

### Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be

covered. Actual sessions held may differ.

How physiology is manifested and observed at a cellular level will be explored in this module through an introduction to the field of Anatomy and Histology.

The course is aimed primarily at those who already have A-level Biology and who are embarking on a cell- and molecularly-oriented Biology degree, and who may wish to pursue physiological and biomedical subjects in future years.

The module is intended to broaden student's biological background and to support second and third year modules

Lectures are aimed to introduce students to the anatomy of all major mammalian systems, including: Lung, Liver, pancreas, GI tract, Skeletal muscle, the heart, bone, neural tissue, skin, the ovaries and testes. Some focus on tissue development is included to show how tissues are regulated by genes.

There is a supporting computer workshop  
Computer Workshop (1 x 2 hours)

Laboratory Workshop: 3 x 2 hour practical workshops, including:

- Mouse dissection and identification of tissues
- Achieving Kohler illumination on a compound microscope
- Practicing descriptions of a number of key mammalian tissues
- Open microscopy access (supervised) in the laboratories

## Learning outcomes

By the end of the module, students should be able to:

- 1. To understand the evolutionary link between extant animals and appreciate the model organisms that are currently used in biomedical research
- 2. To be able to understand the advantages and limitations of comparative anatomy
- 3. To learn and apply standard microscopy techniques
- 4. To understand the principles of histology, including material preparation, staining and visualisation
- 5. To recognise morphological and pathological differences in some tissues

## Indicative reading list

[Reading lists can be found in Talis](#)

## Subject specific skills

1. To be able to understand the advantages and limitations of histology
2. To learn and understand the use of standard microscopy techniques
3. To understand the basics of histology, including material preparation, staining and

visualisation

4. To be able to practically recognise pathological differences in some tissues

## Transferable skills

1. Self directed learning
  2. Adult learning
  3. Practical skills and techniques
- 

## Study

### Study time

Type	Required
Lectures	20 sessions of 1 hour (13%)
Practical classes	3 sessions of 2 hours (4%)
Supervised practical classes	1 session of 3 hours (2%)
Other activity	2 hours (1%)
Private study	119 hours (79%)
Total	150 hours

### Private study description

Self directed learning and preparation for the laboratory practical sessions

### Other activity description

Active learning workshops to support lectures

### Costs

No further costs have been identified for this module.

---

## Assessment

You do not need to pass all assessment components to pass the module.

### Assessment group D1

	<b>Weighting</b>	<b>Study time</b>	<b>Eligible for self-certification</b>
Learning Portfolio	40%		Yes (extension)
Closed-book computer-based end-of-year examination	60%	1 hour	No
In-person locally-timetabled closed-book computer-based end-of-year examination			

## Assessment group R2

	<b>Weighting</b>	<b>Study time</b>	<b>Eligible for self-certification</b>
Closed-book computer-based examination	100%		No
In-person locally-timetabled closed-book computer-based examination			

## Feedback on assessment

Post-exam board feedback (cohort level)

[Past exam papers for LF134](#)

---

## Availability

### Courses

This module is Core for:

- Year 1 of UBSA-C1B9 Undergraduate Biomedical Science
- ULFA-C1A3 Undergraduate Biomedical Science (MBio)
  - Year 1 of C1A3 Biomedical Science
  - Year 1 of C1B9 Biomedical Science
- Year 1 of ULFA-C1A7 Undergraduate Biomedical Science with Industrial Placement (MBio)
- Year 1 of ULFA-CB18 Undergraduate Biomedical Science with Placement Year
- Year 1 of ULFA-B140 Undergraduate Neuroscience (BSc)
- Year 1 of ULFA-B142 Undergraduate Neuroscience (MBio)
- Year 1 of ULFA-B143 Undergraduate Neuroscience (with Industrial Placement) (MBio)
- Year 1 of ULFA-B141 Undergraduate Neuroscience (with Placement Year) (BSc)

This module is Core optional for:

- Year 1 of UBSA-3 Undergraduate Biological Sciences
- Year 1 of ULFA-C1A1 Undergraduate Biological Sciences (MBio)
- Year 1 of ULFA-C113 Undergraduate Biological Sciences (with Placement Year)
- Year 1 of ULFA-C1A5 Undergraduate Biological Sciences with Industrial Placement (MBio)