

Microscopic Anatomy (G000741)

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course size *(nominal values; actual values may depend on programme)*
Credits 8.0 **Study time** 240 h **Contact hrs** 85.0 h

Course offerings and teaching methods in academic year 2020-2021

A (semester 1)	Dutch	Gent	practicum	40.0 h
			lecture	45.0 h

Lecturers in academic year 2020-2021

Van Den Broeck, Wim	D103	lecturer-in-charge
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Offered in the following programmes in 2020-2021

Bachelor of Science in Veterinary Medicine	crdts	offering
	8	A

Teaching languages

Dutch

Keywords

microscopic anatomy, structure-function relationship

Position of the course

Understanding the structural organization of different tissue types in organs; Understanding the structural organization of different organs in organ systems; Insight in the structure - function relationship.

Contents

The different organ systems are described in extenso, viz. the digestive system, the urinary system, the female reproductive system, the male reproductive system, the respiratory system, the endocrine system, the nervous system, the eye, the ear, the cardiovascular system, the integumentary system, and the immune system.

Initial competences

Insight in the structural organization of the cell and the four different basic tissue types (epithelial tissue, connective tissue, muscle tissue, nervous tissue) is required to start this course. Furthermore, knowledge of Embryology, General Anatomy, and Biology is required.

Final competences

- 1 To know and understand the microscopic anatomy of every organ.
- 2 To recognize and identify the different components of organs on microscopic level.
- 3 To have insight in the structure-function relationship of different organs.
- 4 To know and understand the organisaion of different organs in different organ systems.
- 5 To have insighe in the structure-function relationship of different organ systems.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Lecture, practicum

Extra information on the teaching methods

Theoretical part: lectures with schematic drawings and demonstrations of the light and electron

microscopic structures; Practical part: microscopic observation of 100 tissue sections showing the different organs and organ systems; e-learning: different exercises using the Minerva platform.

Learning materials and price

syllabus; schematic drawings made during the lectures; manual for the practical courses.

References

Dellmann's Textbook of Veterinary Histology (Eurell and Frappier, Blackwell Publishing)

Course content-related study coaching

two AAP-members during the practical courses; possibility to discuss some problems with the docent.

Evaluation methods

end-of-term evaluation and continuous assessment

Examination methods in case of periodic evaluation during the first examination period

Oral examination, skills test

Examination methods in case of periodic evaluation during the second examination period

Oral examination, skills test

Examination methods in case of permanent evaluation

Participation, skills test

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible in modified form

Extra information on the examination methods

(A): periodical evaluation. The examination content consists of the study material discussed during the colleges. The examination is a periodical evaluation with three questions that will be discussed orally after written preparation.

(B): permanent evaluation combined with an evaluation at the end of the period. Permanent evaluation of dedication and skills during the teaching period. At the end of the period, the evaluation consists of the microscopic observation and discussion (1 tissue section orally, 2 tissue sections written) of several tissue sections.

Calculation of the examination mark

Theoretical part (A): the 3 orally discussed questions are evaluated equally, each on a total of 20 points.

Practical part (B): 3 sections will be evaluated equally, and this evaluation accounts for 75%, while the permanent evaluation accounts for 25%.

Finally, the theoretical part accounts for 85%, and the practical part (both permanent evaluation and evaluation at the end of the period) for 15%. At the end, a figure between 9,5 and 9,9 can only be round off upwards to 10 if both requirements are fulfilled:

- 1 the figure for the practical part (A) is 10/20 or more, and
- 2 the total amount of deficiencies on the theoretical part may not exceed 3 points (on a total of 60 points).

Students who eschew period aligned and/or non-period aligned evaluations for this course unit may be failed by the examiner.