



SZKOŁA GŁÓWNA  
GOSPODARSTWA  
WIEJSKIEGO

## Animal histology – Scientific Vocabulary in English

### Educational subject description sheet

#### Basic information

<b>Field of study</b> Course Offer for exchange students - second cycle studies, including uniform master studies (MA programmes) <b>Speciality</b> - <b>Organizational unit</b> Course Offer for exchange students <b>Study level</b> second cycle studies, including uniform master studies (MA programmes) <b>Study form</b> full-time studies <b>Education profile</b> General academic		<b>Didactic cycle</b> 2024/25 <b>Subject code</b> PWMPWM2S_D.B100000P.06280.24 <b>Lecture languages</b> english <b>Mandatory</b> Elective subjects <b>Block</b> Basic subjects <b>Disciplines</b> Animal husbandry and fishery
<b>Coordinator</b>	Robert Kasprzak	
<b>Teacher</b>	Robert Kasprzak, Magdalena Fajkowska	
<b>Period</b> Winter semester	<b>Examination</b> Pass with grade  <b>Activities and hours</b> Auditorium exercises: 30	<b>Number of ECTS points</b> 2

## Goals

Code	Goal
C1	In this language-focused course, students learn the English vocabulary related with the histo-anatomical structure of vertebrates, with the focus being put on both organs and entire systems (digestive, respiratory, cardiovascular, lymphatic, urinary, endocrine, nervous, integumentary and reproductive systems). The classes also include a brief introduction of embryological and histopathological vocabulary, as well as histological methods and other miscellaneous, but valuable vocabulary, all of which may be relevant when writing scientific papers in various biological studies. In opposition to simple lecturing, students actively participate in the classes by responding to questions being asked by the Lecturer, as well as gathering clues to crosswords which are being handed out to them at each meeting. The aim of all these exercises is to prepare students to be able to write short descriptions or speeches in the English language, mostly of histological pictures and histology-based scientific articles etc. Finally, at the end of the semester, students individually prepare a 5-10 min. long spoken presentation (with visuals), which introduces a specific scientific aspect, if possible within the broad boundaries of histology.

## Entry requirements

Basic knowledge about cellular biology and vertebrate biology.

Advanced English skills (B2 or higher)

## Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
<b>Knowledge - Student knows and understands:</b>			
W1	Students consolidate their knowledge about most aspects of vertebrate tissues and organs.		Oral credit
W2	Students learn histological vocabulary in the English language, which is essential when reading and writing scientific literature.		Oral credit, Presentation
<b>Skills - Student can:</b>			
U1	Students gain the ability to prepare and present a speech with visual aid, using a technically correct histo-anatomical vocabulary in English.		Presentation
U2	Students gain the ability to prepare written and oral descriptions of histological slides, with the aim of publishing research articles.		Oral credit
<b>Social competences - Student is ready to:</b>			
K1	Students master the histological vocabulary in the English language, improving their competences as future scientists in the biological R&D industry.		Presentation

## Study content

No.	Course content	Subject's learning outcomes	Activities
1.	Laboratory equipment and procedures, histological methods, and other useful scientific and medical vocabulary.	W2, U2	Auditorium exercises

2.	Tissues: epithelial, muscular, connective and nervous.	W1, W2, U2	Auditorium exercises
3.	Organ systems: endocrine, cardiovascular, lymphatic, integumentary, digestive, respiratory, urinary, nervous and reproductive.	W1, W2, U2	Auditorium exercises
4.	Embryology and pathology.	W1, W2, U2	Auditorium exercises
5.	Individual oral presentation (in English) on a scientific topic related to biological sciences.	W2, U1, K1	Auditorium exercises

## Course advanced

Activities	Methods of conducting classes
Auditorium exercises	Conversation lecture, Problem solving, Teamwork, Individual work

Activities	Examination method	Percentage
Auditorium exercises	Oral credit	50%
Auditorium exercises	Presentation	50%

Activities	Credit conditions
Auditorium exercises	Oral credit: obtaining >50% of the points from the oral exam, which consists of tasks related to the recognition of specialized histological vocabulary, as well as making English-language definitions of certain structures/organs/systems etc. Presentation: giving a presentation in English (5-10 minutes) on a topic related to biological sciences (histology and anatomy, if possible).

## Literature

### Obligatory

1. Mescher A.L. 2009. Junqueira's Basic Histology: Text and Atlas. McGraw-Hill, USA
2. Löw P., Molnár K. & Kriska G. 2016. Atlas of Animal Anatomy and Histology. Springer International Publishing, Switzerland
3. Bacha W.J. & Bacha L.M. 2012. Color Atlas of Veterinary Histology. Wiley-Blackwell, UK

### Optional

1. Young B., Woodford P., O'Dowd G. Wheater's Functional Histology : A Text and Colour Atlas. 2013. Elsevier
2. Ross M.H., Pawlina W. Histology: A Text and Atlas : With Correlated Cell and Molecular Biology. 2015. Lippincott Williams and Wilkins
3. Mills S.E., Histology for Pathologists. 2015. Lippincott Williams and Wilkins
4. Gartner L.P., Hiatt J.L., Brs Cell Biology and Histology. 2014. Lippincott Williams and Wilkins
5. Jennings R., Premanandan C. Veterinary Histology. 2017. The Ohio State University

## Calculation of ECTS points

Activity form	Activity hours*
Auditorium exercises	30
Preparation of a multimedia presentation	15

Preparation for the exam	15
<b>Student workload</b>	<b>Hours</b> 60
<b>Number of ECTS points</b>	<b>ECTS</b> 2

\* hour means 45 minutes