

Subject card

Subject name and code	Basics of general epidemiology and epidemiology of zoonoses, PG_00154751						
Field of study	Biology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of General and Medical Biochemistry -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Dorota Gregorowicz-Warpas				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		5.0		15.0	50
Subject objectives	The aim of the course is to obtain theoretical and practical knowledge in the field of basic issues related to general epidemiology and the epidemiology of zoonoses. Students will acquire the ability to recognize health threats occurring at the workplace and implement preventive measures.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[BIOLMU2_W04] the graduate has an in-depth knowledge of the chosen specialisation in the biological sciences		The student knows and understands in-depth knowledge of the selected biological sciences specialty		[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion		
	[BIOLMU2_U02] the graduate is able to make proficient use of the scientific literature of the biological speciality studied		The student is able to fluently use the scientific literature of the studied biological specialty		[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU4] test/exam - oral or written		
	[BIOLMU2_W05] the graduate understands the dynamic development of the biological sciences and is familiar with new research directions and disciplines		The student knows and understands the dynamic development of biological sciences and new research directions and disciplines		[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion		

Subject contents	1. Introduction to epidemiology classes. Definition, goals, tasks, division and applications of epidemiology. The development of epidemiology and the modern concept of the field. 2. General and specific epidemiology. Epidemiology and clinical medicine. 3. The role of epidemiology in describing the health status of populations, tracing the natural history of diseases, identifying the causative factors of health disorders, and evaluating clinical and population interventions. Demographic phenomena. 4. Methodology of epidemiological research. Health metrics. 5. Elements of epidemiological statistics. Principles of epidemiological analysis and planning of epidemiological studies. 6. Environmental epidemiology. Types of epidemiological studies. Causal inference. Risk measures and risk assessment methods. Standardization. 7. Clinical and social epidemiology. New applications of epidemiology (genetic and molecular epidemiology). 8. Application of epidemiology in planning and assessing the effectiveness of population-based preventive programs. 9. Epidemiological surveillance of zoonoses. European Union directives relating to infectious animal diseases and public health protection. 10. Etiology, pathogenesis, symptomatology, diagnosis and control of selected zoonoses. 11. The threat of biological weapons. 12. New threats and challenges in the area of epidemiology and public health.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	final test	51.0%	100.0%
Recommended reading	Basic literature	1. Paradowska- Stankiewicz I., Rosińska M., Wojtyniak B., Zieliński A.: Epidemiology from theory to practice, PZWL, Warsaw 2012. Webb P., Bain C., Page E.: Epidemiologia, Ed. Scholar, Warsaw 20213. Boroń-Kaczmarek A., Wiercińska- Drapało A.: Infectious and parasitic diseases, PZWL, Warsaw 20194. Cianciara J., Juszczak J.: Infectious and parasitic diseases, Volume I, II, Ed. II, Czelej, Lublin 20125. Dziubek Z.: Infectious and parasitic diseases, Ed. II, PZWL, Warsaw 20106. Z. Gliński, K. Kostro (ed.): Infectious animal diseases with elements of epidemiology and zoonoses, PWRiL, Warsaw 20117. Winiarczyk S., Grądzki Z.: Textbook of infectious diseases of domestic animals with elements of zoonoses, University of Life Sciences in Lublin, Ed. II, Lublin 2018. Magdzik W., Naruszewicz-Lesiuk D. Human infections and contagions. Epidemiology, prevention and control, PZWL, Warsaw 20019. Sygit M.: Public health, Ed. Wolters Kluwer Polska 2010	
	Supplementary literature	1. Jabłoński L., Karwat I.D.: Basics of general epidemiology, epidemiology of infectious diseases, Ed. Czelej, Lublin 2002	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Determining the final grade based on partial grades received during the semester (colloquium, final paper in the form of a multimedia presentation, final test). If you fail to pass the final test, you will receive an oral exam.		
Work placement	Not applicable		

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