

Subject card

Subject name and code	Basic epidemiology, PG_00203396						
Field of study	Medical Biology						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2027/2028		
Education level	Bachelor's studies	Subject group			Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	4	ECTS credits			1.0		
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	15.0	0.0	0.0	0.0	0.0	15
	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	15		2.0		8.0	25
Subject objectives	The aim of the course is to familiarize students with basic issues in epidemiology and infectious diseases.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOLMEDL3_W12] has an advanced understanding of the development and current state of knowledge and the latest trends in medical biology; indicates their relationship with other disciplines of natural or medical sciences	The student is versed in the development and current state of knowledge and the latest trends in medical biology. Is able to indicate their relationship with other disciplines of natural or medical sciences.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
	[BIOLMEDL3_W11] has advanced knowledge of methods for assessing health status, as well as the symptoms and causes of selected disorders and pathological changes; understands the basics of a healthy lifestyle and is able to explain and promote them	The student has advanced knowledge of methods for assessing health status and the symptoms and causes of selected disorders and lesions, and knows the basics of a healthy lifestyle, and is able to justify and promote them.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
	[BIOLMEDL3_W07] has advanced knowledge of medical biology and is familiar with the health sciences terminology	The student has advanced knowledge of medical biology and knows the terminology of health sciences.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
	[BIOLMEDL3_U15] learns independently, in a focused manner	The student is able to learn independently, in a directed way.	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written
	[BIOLMEDL3_K01] understands the need for lifelong learning and to update his/her knowledge of medical biology and related disciplines	The student understands the need for lifelong learning and updating knowledge in the field of medical biology and related disciplines.	[SK8] observation of student's independent or team work
	[BIOLMEDL3_U07] is able to identify problems corresponding to the needs of an individual and a social group and to undertake basic diagnostic, preventive and educational activities appropriate to the profession of medical biologist	The student is able to identify problems corresponding to the needs of an individual and a social group and to undertake basic diagnostic, preventive and educational activities appropriate to the profession of a medical biologist.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU4] test/exam - oral or written
	[BIOLMEDL3_U10] in Polish or English, prepares written, well-documented studies of selected problems in medical biology	The student prepares well-documented studies of selected medical biology problems in Polish or English.	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written
	[BIOLMEDL3_K03] is aware of his/her own limitations and knows when to seek expert assistance	The student is aware of his own limitations and knows when to seek help from experts.	[SK8] observation of student's independent or team work
[BIOLMEDL3_K04] is able to form opinions about individuals and social groups in a professional context	The student is able to formulate opinions about individual people and social groups in the context related to their profession.	[SK8] observation of student's independent or team work	
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.4. Methodology of epidemiological research. Demographic phenomena. 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. Epidemiology of non-communicable diseases in the world and in Poland. Environmental factors and the epidemiology of infectious and non-communicable diseases. Socially important non-communicable diseases. 10. Lifestyle diseases.11. Principles of investigating an infectious disease outbreak.12. Health problems of old age and disability problems.		
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 20212. Webb P., Bain C., Page E.: Epidemiologia, Ed. Scholar, Warsaw 20213. Boroń-Kaczmarek A., Wiercińska- Drapała A.: Infectious and parasitic diseases, PZWL, Warsaw 20194. Bulanda M., Wójkowska-Mach J.: Nosocomial infections in health care units, PZWL, Warsaw 20165. Bzdęga J., Gębska- Kuczerowska A.: Epidemiology in public health, PZWL, Warsaw 20106. Cianciara J., Juszczyk J.: Infectious and parasitic diseases, Volume I, II, Ed. II, Czelej, Lublin 20127. Denys A.: Hospital infections. Selected issues, ABC and Wolters Kluwer business, Warsaw 20128. Denys A.: Hospital infections in selected departments, Vol. II, ABC and Wolters Kluwer business, Warsaw 20139. Dziubek Z.: Infectious and parasitic diseases, Ed. II, PZWL, Warsaw 201010. Pawińska A.: Prevention of nosocomial infections - safety of the hospital environment, Ed. -medica press, Warsaw 201111. Sygit M.: Public health, Ed. Wolters Kluwer Polska 201012. Dzierżanowska D.: Hospital infections, Ed. -medica press, Bielsko-Biała 2008
	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	Final work in the form of a multimedia presentation, final test. In case of failure to pass the final test - oral examination.	
Work placement	Not applicable	

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