

## Information sheet for the course Biology for Public Health

<b>University:</b> <i>Alexander Dubček University of Trenčín</i>					
<b>Faculty:</b> <i>Faculty of Health Care</i>					
<b>Course unit code:</b> BVerZdr/e			<b>Course unit title:</b> Biology for Public Health		
<b>Type of course unit:</b> <i>compulsory</i>					
<b>Planned types, learning activities and teaching methods:</b> <i>Lecture: 1 hour weekly/13 hours per semester of study; full-time</i>					
<b>Number of credits:</b> 3					
<b>Recommended semester:</b> <i>3<sup>rd</sup> semester in the 2<sup>nd</sup> year (part-time)</i>					
<b>Degree of study:</b> <i>I (bachelor)</i>					
<b>Course prerequisites:</b> none					
<b>Assessment methods:</b> Written or oral examination (50 score points)- for obtaining the particular grades it is necessary to achieve: at least 45 score points for the grade A at least 40 score points for the grade B at least 35 score points for the grade C at least 30 score points for the grade D at least 25 score points for the grade E					
<b>Learning outcomes of the course unit:</b> Student receives study the subject "Biology for public health" general overview of the fundamental properties of living systems and their reproduction.					
<b>Course contents:</b> 1. The characteristics of living systems, cell structure, biomacromolecules. 2. Metabolic transformations in a cell. 3. Reproduction of prokaryotic cells. 4. The cell cycle of eukaryotic cells and its regulation. 5. Amitosis, mitosis and meiosis. 6. Principles of heredity organisms. 7. Mendel and Morgan's laws. 8. Binding of genes with sex. 9. Pleiotropy, gene interactions. 10. Mutations reparative processes mutagenic. 11. Qualitative and quantitative characteristics. 12. Population Genetics, Hardy-Weinberg law. 13. New trends in biological sciences.					
<b>Recommended of required reading:</b> 1. NEČAS O. 2000. <i>Obecná biologie pro lékařské fakulty.</i> 2. MELUŠ V., KRAJČOVIČOVÁ Z., SLOBODNÍKOVÁ J. 2011. <i>Genetika pre zdravotnícke odbory.</i>					
<b>Language:</b> Slovak					
<b>Remarks:</b>					
<b>Evaluation history:</b> <i>Number of evaluated students: -</i>					
A	B	C	D	E	FX
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<b>Lectures:</b>					

RNDr. Vladimír Meluš, PhD., MPH
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<b>Last modification:</b> 22.04.2015
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<b>Supervisor:</b> doc. MUDr. Mária Štefkovičová, PhD., MPH.
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