

Syllabus of an educational component of a degree programme

Name of unit conducting a component	<i>Doctoral School of Social Sciences</i>
Name of an educational component	Evolution, adaptation, and evolutionary psychology
Language of education	English
Goals of education	The idea of evolution and evolutionary thinking is absolutely crucial for biology. The unity of biological organisms on the one side and their extraordinary variety are best explained by the process of evolutionary change. In this class we will discuss basic evolutionary concepts that have great importance for evolutionary inspired psychological research and theories, as well as changes that has undergone in the evolutionary thinking since the formulation of the New Synthesis. Major advances in psychology research inspired by evolutionary thinking will be presented.
Learning outcomes of an educational component	<p>W1 students know and understand the basic logic of evolutionary theory, the idea of adaptation and its relation to the module concept</p> <p>W2 students know and understand the main developments in evolutionary psychology</p> <p>W3 students know and understand the research methodology of evolutionary inspired research in psychology</p> <p>U1 students are able to use knowledge from evolutionary biology, evolutionary genetics, and evolutionary psychology to identify, formulate research programs.</p> <p>U2 students are able to identify psychological hypotheses that are prone to evolutionary explanations.</p> <p>K1 students are ready to critically assess the achievements of the evolutionary psychology and its evolutionary biology background.</p> <p>K2 students are ready to recognize the importance of evolutionary explanations in psychology, as well as its shortcomings.</p>

Verification methods and assessment criteria of learning outcomes obtained by students	Discussions of the assigned texts and basic ideas. Critical examination of existing evidence for evolutionary biology and psychology hypotheses. Exam – solving multiple problems in evolutionary thinking in psychology
Type of an educational component (obligatory/optional)	optional
Year of study	1st
Semester	Winter
Name and surname of the coordinator of a component and/or person/s conducting a component	Dr hab. Jacek Neckar, prof. UJ
Name and surname of person/s conducting an examination or granting credit in the case when this is other person than conducting a component	As above
Manner of completion	Written exam. Preparing a presentation of chosen topics for the class.
Preliminary and additional requirements	none
Type and number of hours of courses requiring direct participation of academic staff and students, if in a given component such courses are included	Class participation 30 h
Number of ECTS credits assigned to a component	3 ECTS
Balance of ECTS credits	Class participation 30 h Reading for each meeting 30 h Preparation of a presentation 10 h Preparation for the exam 20 h
Applied teaching methods	Lecture, seminar, discussion, presentations.
Form and conditions of passing a component, including conditions of allowing to take an examination, as well as form and conditions of passing each type	Each participants will be asked to prepare a presentation for the class. All participants are expected to read assigned texts and participate in discussions.

of courses included in a given component	The exam will have a form of solving basic issues in evolutionary thinking in psychology.
Content of an educational module (with division into forms of courses completion)	<ol style="list-style-type: none"> 1. Pattern of evolution 2. Mechanisms of evolutionary change 3. Beyond New Synthesis 4. Experimental evolutionary biology 5. Adaptation – general idea 6. The evolution of social behaviour 7. Human evolution 8. What genetic changes have made us humans? 9. Phenotypic variation 10. Adaptation and modules 11. Basic advantages of evolutionary psychology paradigm 12. Review of evolutionary psychology discoveries 13. Critique of the mainstream evolutionary psychology 14. Is there a chance of an alternative/broader approach to evolutionary thinking in psychology? 15. Recapitulation and future directions.
List of basic as well as supplementary literature, knowledge of which is required in order to pass a given component	<p>Herron, J.C., and Freeman, S. (2014). Evolutionary analysis (excerpts). Pearson.</p> <p>Bergstrom, C.T, and Dugatkin, L.A. (2012). Evolution (excerpts). W.W. Norton.</p> <p>Williams, G.C. (1966/1992). Adaptation and natural selection (excerpts). Princeton University Press.</p> <p>Buss, D.M. (ed.) (2016). The Handbook of evolutionary psychology (excerpts). Wiley.</p>