

1.	Course name: Global climate change and its consequences for biosphere
2.	University department: Ornithological Station
3.	Course type: lecture (10h), seminar (15h)
4.	Degree: master
5.	Semester: summer
6.	Number of hours: 25
7.	Name, Surname, academic title: Lucyna Hałupka, PhD (lucyna.halupka@uwr.edu.pl)
8.	Course description/Content: Weather and climate. Methods of studying current and past climate. Changes of climate in the past. Greenhouse effects, greenhouse gases. Solar and volcanic activity as factors modifying greenhouse effects. Evidence for anthropogenic origin of current climate change. The effect of climate change on populations of plants and animals. Modeling and predicting future climate change.
9.	Recommended literature: Houghton J. 2004. Global Warming. Cambridge University Press, Cambridge; Henson R. 2006. The Rough Guide to Climate Change: the symptoms, the science, the solutions, London: Penguin; Lovejoy T.E., Hannah L.(eds). 2005. Climate change and biodiversity. Yale University Press, New Haven, London; Dow K., Downing T.E. The Atlas of Climate Change; mapping the world's greatest challenge. Myriad Emissions Ltd., Brighton, UK; Reay D. 2006. Climate change begins at home. Life on the two-way street of global warming. Macmillan, London, New York; Schneider S.H., Root T. (eds.) 2002. Wildlife Responses to Climate Change: North American Case Studies. Island Press, Washington, Covelo, London.
10.	Form of credit: lecture: examination (written test) seminar: assessment of students' presentations and engagement in discussions
11.	Language: English
12.	Number of ECTS: 3