

Course Name	Evolutionary Biology (Biodiversity and Climate Change)		
Semester, Year	Second Semester, 2018	Number of Credits	2 credits
Course level	5000	Course Number	27091
Instructor(s) (Institution)	Maria Helena Fortunato Martins (大学院理学研究院)		
Course Objectives	<p>Upon completion of this seminar, students should:</p> <p>Understand the connections between past and present climate change patterns</p> <p>Recognize connections between human activity and present climate trends</p> <p>Recognize the impacts of climate change on biodiversity</p> <p>Understand how climate change trends will affect current distributions and what this may represent for earth's future</p> <p>Be familiar with predictions and models related to future climate trends</p> <p>Understand the interplay between society's adaptation to climate change and biodiversity conservation and restoration efforts</p> <p>Be familiar with climate change mitigation policy</p> <p>Be familiar with climate change policy information</p>		
Course Goals	<p>Understanding and responding to global climate change in one of the challenges of the 21st century. This course intends to line up the fundamental principles underlying climate change and its implications for biodiversity. Connections with environmental sciences, chemistry and physics will be explored as possible. Equally, we will analyze the connections between human activity and changing climate patterns. Both recent and past perspectives of climate change will be analyzed in order to better understand predictions of future changes and challenges of adaptation.</p>		
Course Schedule	Weekly seminar to discuss original papers and other documents pertaining to climate change and its impacts in biodiversity practice and policy.		
Homework	Original papers readings. To find and bring examples of climate change issues discussed in the seminars		
Grading System	Grades will be based on the numeric average of: attendance (10%); class participation (reading given materials, adding new information, discussion, etc.) (50%); independent presentation that will serve as final examination (40%).		
Textbooks / Reading List	The basic documents for study are: IPCC 2007/2013 Assessment reports, Stern Report 2006, Pew Center reports, Royal Society Report 2010, Millenium assessment report 2005, Natura Biodiversity assessment report 2006, World economic Forum Global risks report		
Websites	www.ipcc.ch/ http://www.un.org/wcm/content/site/climatechange/gateway http://www.nature.com/nclimate/index.html		
Website of Laboratory			
Additional Information	<p>A few other web sites of importance</p> <p>http://www.natura.org/</p> <p>http://www.biodiversitya-z.org/</p> <p>http://www.smeforbiodiversity.eu/</p> <p>http://ec.europa.eu/environment/nature/index_en.htm</p>		