

COURSE OUTLINE

(1) General

School:	Social Sciences		
Academic Unit:	Geography		
Level of studies	Undergraduate		
Course Code:	GEO 415	Semester:	G
Course Title:	Climate and People		
Independent Teaching Activities	Weekly Teaching Hours	Credits	
			Course total
			5
Course Type:	Optional		
Prerequisite Courses:	None		
Language of Instruction and Examinations	Greek		
Is the course offered to Erasmus students:	No		
Course Website (Url):	https://geography.aegean.gr/pps/index_en.php?content=0&lesson=415		

(2) Learning Outcomes

Learning Outcomes

Upon successful completion of the course the students will be able to describe the relationships and effects of climatic conditions in humans, especially with regard to human health and human activities (such as agriculture, industry, trade, transport, energy, etc.). Considering the anthropogenic influence on global and regional climate, the course aims at providing students with the essential background for further studying in climate changes and their subsequent social and/or economic consequences. Upon completion of the course the students would have understood the interactions between the natural environment and human activities. The knowledge gained by students during the course can be applied in different scientific research fields concerning the environment, economy, and politics.

General Competences

1. Working independently
2. Working in an interdisciplinary environment
3. Respect for the natural environment
4. Criticism and self-criticism
5. Production of free, creative and inductive thinking

(3) Syllabus

Addressing the relationships between climate and people: the effect of climate on the development of human societies, the effect of climate on human health and activities and study of the human-induced climate change which is emerging as a major cause of global environmental problems. Discussion of climatic factors and climatic elements (definition, spatial and temporal distribution and estimation methods), Climatic indices (e.g. indices of continentality, oceanity, desertification, climograms). Bioclimatology (temperature, humidity, wind, atmospheric pressure and human comfort, seasonal affective disorder, bioclimatic indicators of human distress - euphoria). Major climatic zones: their particular characteristics and global distribution.

Microclimates (e.g. urban climate, microclimate of forest, field). Applied climatology (effects of climate on agriculture, industry, trade, transport, communications, energy demand). Climate Change (paleoclimatology, contemporary climate change). Socio-economic impacts of climate change.

(4) Teaching and Learning Methods - Evaluation

Delivery:	Face to face	
Use of Information and Communication Technology:	Student contact electronically. Power point presentations.	
Teaching Methods:	Activity	Semester workload
Lecture	39	
Performance evaluation/Exams	3	
Project	40	
Non-supervised study	48	
	Course total<	130
Student Performance Evaluation	Written examination (70%) and essay report (30%).	

(5) Attached Bibliography

1. Feidas C., 2004, Climate and Human, Lecture notes, Dpt. Geography, University of the Aegean.
2. Chronopoulou-Sereli A. and Flocas A. 2010. Agricultural Meteorology and Climatology courses. Ziti Editions, Thessaloniki (in Greek).
3. Burroughs, W.J., 2007: Climate Change: A Multidisciplinary Approach, Cambridge University Press, 390 pp.
4. IPCC, 2007: Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, 996 pp.
5. IPCC, 2007: Climate Change 2007: Impacts, Adaptation, and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Parry, Martin L., Canziani, Osvaldo F., Palutikof, Jean P., van der Linden, Paul J., and Hanson, Clair E. (eds.)]. Cambridge University Press, Cambridge, United Kingdom, 1000 pp.
6. Morgan M.D., Moran J.M., 1996, Weather and People, Prentice Hall
7. Pittock, B, 2009: Climate Change: Science, Impacts and Solutions CSIRO Publishing, 368 pp.
8. Thompson, R.D., and Perry, A., 1997: Applied Climatology: Principles and Practice, 1st edition, London: Routledge, 388 pp.