

COURSE OUTLINE

(1) General

School:	Social Sciences		
Academic Unit:	Geography		
Level of studies	Undergraduate		
Course Code:	GEO 311	Semester:	E
Course Title:	Wildfire Ecology and Management		
Independent Teaching Activities	Weekly Teaching Hours	Credits	
Lecture		3	
Laboratory practice		2	
		Course total	5
Course Type:	Required Elective		
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=311		

(2) Learning Outcomes

Learning Outcomes

Concepts and systems underlying prevention and control of wildland fires, as related to overall land management planning and to responsibilities facing today's geographer.

General Competences

1. Search for, analysis and synthesis of data and information, with the use of the necessary technology
2. Decision-making
3. Working independently
4. Working in an international environment
5. Production of new research ideas
6. Respect for the natural environment

(3) Syllabus

Wildfire hazard and risk management. Prevention and pre-suppression planning. Fire suppression strategies. Post-fire effects and rehabilitation. Human perspectives. Linkage between fire behavior and fire ecology on biotic and abiotic ecosystem components. Application of fire behavior knowledge to resource management planning processes. Integration of fire information systems and remote sensing.

(4) Teaching and Learning Methods - Evaluation

Delivery:	Remote instruction and digital
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Use of Information and Communication Technology:	Fire Information Systems -- In lectures-exercises-communication with students	
Teaching Methods:	Activity	Semester workload
Lecture		39
Laboratory practice		26
Project		30
Non-supervised study		39
Performance evaluation/Exams		10
	Course total<	144

Student Performance Evaluation The final grade is determined according to the following criteria: midterm exam 40% -- written assignment 20% -- final exam 40%

(5) Attached Bibliography

1. Kalabokidis K., Iliopoulos N., Giglinos D. 2012. **Fire Meteorology and Forest Fire Behavior in a Changing Climate. ION Publications, Athens. ISBN: 978-960-508-045-7. 396 p.**
2. Biswell, H.H. 1989. Prescribed Burning in California Wildlands Vegetation Management. University of California Press, Berkeley-Los Angeles.
4. Cheney, P., and A. Sullivan. 1997. Grassfires: Fuel, Weather and Fire Behaviour. CSIRO Publishing, Australia
6. Pyne, S.J., P.L. Andrews, and R.D. Laven. 1996. Introduction to Wildland Fire, 2nd edition. John Wiley & Sons, Inc., New York.
8. Schroeder, M.J., and C.C. Buck. 1970. Fire Weather. USDA Forest Service, Agriculture Handbook 360.
10. Wright, H.A., and A.W. Bailey. 1982. Fire Ecology. John Wiley & Sons, Inc., New York.