

SYLLABUS

1. COURSE DESCRIPTION

Degree:	Environmental Sciences
Course:	Meteorology and Climatology
Department:	Basic Training
Department:	Physical, Chemical and Natural Systems
Academic Year:	2017/2018
Term:	First
ECTS credits:	6
Year:	2nd year
Type:	Basic
Language:	Spanish

Course Model:	A1	
a. Basic learning (EB):		70%
b. Practical learning (EPD):		30%

SYLLABUS

2. LECTURER

Name:	David Gallego Puyol
School:	School of Experimental Sciences
Department:	Physical, Chemical and Natural Systems
Area:	Earth Physics
Office Hours:	Mondays, Tuesdays and Wednesdays: 12.00-14.00
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SYLLABUS

3. TOPICS

UNIT 1: Introduction: weather and climate (1 h)

UNIT 2: The atmosphere: structure and composition (2 h)

UNIT 3: Thermodynamics of dry air (3 h)

UNIT 4: Radiation. Energy balance (2 h)

UNIT 5: Water in atmosphere (2 h)

UNIT 6: Stability and instability: vertical movement (2.5 h)

UNIT 7: Clouds and precipitation (3 h)

UNIT 8: Wind and pressure (4 h)

UNIT 9: Movement scale: small-scale and local systems (2 h)

UNIT 10: Global-scale systems (3 h)

UNIT 11: Extratropical cyclones (3 h)