

## SYLLABUS

### 1. COURSE DESCRIPTION

<b>Degree:</b>	<b>Environmental Sciences</b>
<b>Course:</b>	<b>Mathematics</b>
<b>Module:</b>	<b>Basic Training</b>
<b>Department:</b>	<b>Economy, MMCC and Economic History</b>
<b>Academic Year:</b>	<b>2017/18</b>
<b>Term:</b>	<b>Second</b>
<b>ECTS credits:</b>	<b>6</b>
<b>Year:</b>	<b>1<sup>st</sup> year</b>
<b>Type:</b>	<b>Basic</b>
<b>Language:</b>	<b>Spanish</b>

<b>Course Model:</b>	<b>C1</b>	
<b>a. Basic learning (EB):</b>		<b>50%</b>
<b>b. Practical learning (EPD):</b>		<b>50%</b>



## SYLLABUS

### 2. LECTURERS

<b>Coordinator:</b>	
<b>Name:</b>	<b>Pablo Sebastián Alegre Rueda</b>
<b>School:</b>	<b>School of Experimental Sciences</b>
<b>Department:</b>	<b>Economy, MMCC and Economic History</b>
<b>Area:</b>	<b>Statistics</b>
<b>Office Hours:</b>	
<b>Office:</b>	<b>3.2.26</b>
<b>E-mail:</b>	<b>psalerue@upo.es</b>
<b>Phone:</b>	<b>954349167</b>



## SYLLABUS

### 3. TOPICS

**UNIT 1: Matrix algebra.**

**UNIT 2: Equations and linear spaces.**

**UNIT 3: Vector spaces.**

**UNIT 4: Continuity of real functions of real variable.**

**UNIT 5: Differentiability of real functions of real variable.**

**UNIT 6: Classical optimization.**

**UNIT 7: Comprehensive calculation.**

**UNIT 8: Differential equations.**

**UNIT 9: Numerical methods**

**UNIT 10: Computer applications.**