

## SYLLABUS

### 1. Course description

<b>Degree:</b>	<b>Biotechnology</b>
<b>Course:</b>	<b>Biostatistics</b>
<b>Module:</b>	<b>Physics, Mathematics and Computing for the Molecular Biosciences</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>4.5</b>
<b>Year:</b>	<b>2<sup>nd</sup> year</b>
<b>Type:</b>	<b>Compulsory</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>

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### 2. Lecturers

<b>Coordinator</b>	
<b>Name:</b>	<b>Cristóbal Navarrete Cuadra</b>
<b>School:</b>	<b>Universidad Pablo de Olavide</b>
<b>Department:</b>	<b>Economy, MMCC and Economic History</b>
<b>Area:</b>	<b>Statistics and Operations Research</b>
<b>Office Hours:</b>	<b>Mondays, Wednesdays and Fridays: 16.00-18.00</b>
<b>Office:</b>	<b>3.2.26</b>
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### 3. Topics

#### **First part: Descriptive Statistics**

Unit 1: Univariate descriptive statistics.

Unit 2: Bivariate Statistics.

#### **Second part: Probability Calculation.**

Unit 3: Introduction to Probability.

Unit 4: Distributions of Random Variables.

#### **Third part: Statistical Inference.**

Unit 5: Introduction to Statistical Inference.

Unit 6: Sampling theory.

Unit 7: Statistical Inference: Contrasts of Hypothesis.