

SYLLABUS

1. COURSE DESCRIPTION

Degree:	Environmental Sciences
Course:	Sustainable Chemistry
Module:	Complementary Training (Optional)
Department:	Physical, Chemical and Natural Systems
Academic Year:	2017 - 2018
Term:	First
ECTS credits:	6
Year:	4th
Type:	Optional
Language:	Spanish

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

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2. LECTURER

Coordinator	
Name:	Sofía Calero
School:	Universidad Pablo de Olavide
Department:	Physical, Chemical and Natural Systems
Area:	Chemical Physics
Office Hours:	Tuesdays and Thursdays 16.00-20.00
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3. TOPICS

This syllabus is divided into 23 classes as follows:

- Class 1- Presentation
- Class 2- Green chemistry and sustainability
- Class 3- Prevention
- Classes 4 and 5- Atomic economy
- Classes 6 and 7- Non-polluting chemical synthesis
- Class 8- Design of safe chemical products
- Classes 9 and 10- Non-polluting solvents
- Classes 11 and 12- energy efficiency
- Classes 13 and 14- Renewable raw materials
- Class 15- Chemical derivatives
- Classes 16 a18- Catalysts
- Classes 19 and 20- Biodegradable products
- Class 21- Process monitoring
- Class 22- Prevention of accidents
- Class 23- Applications of green chemistry and other principles