



Faculty of Experimental Sciences



Information for incoming students

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1. Dean's Welcome



As Dean of the Faculty of Experimental Sciences, I would like to extend a warm welcome to all students in the University Pablo de Olavide.

The Faculty of Experimental Sciences offers three different programs at undergraduate level: Biotechnology, Environmental Sciences and Human Nutrition and Dietetics. All of these undergraduate degrees are fully adapted to the European Higher Education Area (EHEA).

Our priority is that the time you spend as student of this Faculty is as satisfactory and productive as possible. For this purpose, the whole decanal team is at your disposal.

Thank you for choosing to study with us!

Professor Pilar Ortiz

2. Our University

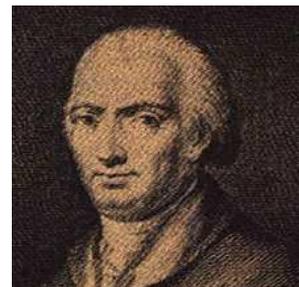
The University Pablo de Olavide, founded in 1997, is one of the three public universities of Seville and one of the youngest in Spain. The University has a population of almost 17,500 students and offers undergraduate and graduate programs in a variety of academic fields.



It is located in a single campus equipped with the most modern technologies, just a few miles from Seville's city center.

Our young university combines teaching, research, as well as social and sport activities in its 140 ha, which makes it a different alternative.

The University is named after the Spanish-Peruvian politician Pablo de Olavide (1725–1803), who contributed notably to the planning of the city of Seville.



3. Campus Map



4. Buildings Guide

Here you have a list of the most important buildings:

Building 1: Cafeteria

Building 3: C. A. S. A. (Centre of Attention and Service to the Student)

Building 6: ARIC (Department of International Relations and Cooperation)

Building 7: Copy shop; Free Access Computer Rooms

Building 9: CIC (Personal Attention for free Wi-Fi configuration)

Buildings 15, 17 and 18: "Celestino Mutis": Language Services; Bank; Bookstore; Cafeteria; Copy shop; etc.

Building 18: Sports Service

Building 22: Teachers offices of Experimental Sciences Faculty

Building 23: Practical lessons (laboratories) of Experimental Sciences Faculty

Building 24: Theoretical lessons of Experimental Sciences Faculty

Building 25: UPO's Central Library (Free Access Computers), UPO's International Center

Building 28: Gym

5. Getting Here

The University Pablo de Olavide is located at km. 1 on the highway to Utrera, close to many major transport links.

- *By Metro:* The metro of Seville currently has one line and, in the future, will have three more. Line 1 has a stop at University Pablo de Olavide, and it goes from Aljarafe to Dos Hermanas, passing through Seville's city center. You can take the subway from different stations. You can find more information on <<http://www.metro-sevilla.es/es/>>.



- *By Bus:* The bus lines to Pablo de Olavide University from Seville's city center are 38 and M-130. Information about these lines can be found on <www.tussam.es> and the bus company also offers a platform for smartphones <https://www.tussam.es/es/descarga-app>.
- *By Bicycle:* Seville has a bicycle rental service. Simply get a card and you can pick up and drop off a bike at any Sevici stop. More information on <<http://en.sevici.es/>>.



Our address

*Universidad Pablo de Olavide
Carretera de Utrera, km 1
41013 Sevilla*



6. Faculty of Experimental Sciences

The Faculty of Experimental Sciences is responsible for all the academic issues you may have to face during your stay here. If you have any doubts or questions about timetables, credits, validation, etc., you can ask our scholars for any information regarding these matters. For any other business, please contact the Department of International Relations and Cooperation (ARIC, Área de Relaciones Internacionales y Cooperación), located in building 6, ground floor.

Our Faculty offers three different undergraduate degree programs: Biotechnology, Environmental Sciences and Human Nutrition and Dietetics.

6.1. Biotechnology

Biotechnology means the modification and application of living organisms, biological processes or systems, to industrial processes aimed either at improving production or offering better services. For example, using living beings or products obtained from them for human profit.

Our Plan of Studies is designed in a certain way that students will get to know the process that a scientific discovery undergoes until it becomes a biotechnological application at industry level. The first part has a general character. Students will learn in depth about the characteristics of biological systems in order to know what their potential applications are and they will as well learn how to modify and enhance such systems in a laboratory. During this part, students will get to know the exploitation processes of these organisms at industry level, the relevant technology for this purpose and the fundamentals of computer science required for carrying out modern research and development.

The second part is more specific. It consists of a range of elective subjects that

allows students to shape their CVs in order to suit fields like Agri-food Biotechnology, Environmental Biotechnology and Biomedical Biotechnology.

The Plan of Studies is complemented with the analysis of economic (creation of biotechnology business) and legal aspects (emphasizing processes of obtaining and exploitation of patents), for both fields play an important role on exploiting these resources. The Campus is equipped with suitable technologies for practice and theory teaching, which allow students to carry out high-level research on Biotechnology.

The new program on Biotechnology will qualify students to implement biotechnological applications in the systems of goods and services production. In order to acquire this general competence, students will acquire knowledge about basic scientific concepts and molecular mechanisms of living beings; they will learn to use of Biotechnology tools, the processes of biotechnological production in detail as well as the social and economic implications of Biotechnology.

Career opportunities:

The educational and competence objectives on our Plan of Studies are designed so that graduate students will be capable of carrying out their professional activity in a responsible and efficient way in the following fields:

- Research, development and innovation in biological processes that can be exploited in scientific fields such as Microbiology, Genetics, Bioremediation, Molecular Diagnostics, Immunology, Pest Control, Plant and Animal Production and Protein Engineering. And also, in fields like engineering aimed at optimizing the exploitation processes of biological resources at industry level.
- Exploitation of biological resources in diagnosis centers and

companies in the agri-food, environmental, biomedical and pharmaceutical sector, as well as in the chemical industry for the production of biological products, such as enzymes and antibodies, and other organic compounds.

- Business activity. Students will acquire the skills to explore and develop their own business plans, related to the aforementioned fields.

6.2. Environmental Sciences

During the second half of the twentieth century, environmental awareness started to rise rapidly and gradually. It got into every social sector, and today the environmental issue is the most significant one in every social factor: political, economic and legal institutions, mass media, citizens' groups, etc.

Unlike other disciplines, Environmental Sciences has a multidisciplinary character, since it includes Experimental Sciences, Law Science, Economic Science, Social Sciences and Engineering.

The undergraduate degree in Environmental Sciences is aimed at:

- Providing multidisciplinary training focused on the scientific, technical, social, economic and legal aspects of environmental issue.
- Transmitting basic knowledge and competences with which students will gain access to a job in the field of environmental protection, analysis of its changes on the Environment as well as prevention and correction of these changes.
- Specializing at technical, teaching and research level in each of the main disciplines related to the Environment.

Career opportunities:

- Environmental impact assessment and consultancy.
- Environmental management in administration.
 - Systems for environmental quality management in companies and organizations.
- Natural environment management.
- Industry environmental technology.
- Environmental education and training.
- Research.

6.3. Human Nutrition and Dietetics

Current trends in health care are focused on reaching the highest health level during a person's life, and, in order to do so, priority is given to prevention and promotion rather than to recovery. Today, having good eating habits is, without any doubt, related to being healthy. This is the reason why in every country's health system there is the figure of expert on dietetics and human nutrition as leader agent, who, in order to promote health and prevent illnesses, is in charge of managing nutrition and dietetics aspects of the population.

The new undergraduate degree consists of 6 modules:

- During the first module, students will be taught fundamentals of the structure and function of human body, biochemical aspects of human nutrition, statistical basics in Health Science and psychological, social and cultural aspects of food.
- The second module will be focused on knowing the food classification, chemical composition, nutritional value, physical-chemical and

functional properties, and modifications that food undergoes in technological processes and its sensory analysis.

- The third module deals with food hygiene and safety, organization and management of food services, food traceability and food companies' management.
- The fourth module is about the study of nutrients and human nutrition, the formulation of diets for ill and healthy people, nutritional status assessment, the nutritional diseases, as well as legislation and deontology in the practice of dietetics.
- The fifth module is focused on the health-nutrition relation, epidemiological studies, nutrition and dietetics intervention programs, nutritional education, as well as planning and development of health and nutrition projects.
- And there is eventually a module that includes the internship and the final degree project.

The Campus is equipped with suitable technologies for practice and theory teaching, which allow students to carry out high-level research on Nutrition.

Career opportunities:

The educational and competence objectives in our Plan of Studies are designed so that graduate students will be capable to carry out their professional activity in a responsible and efficient way in the following fields:

- In the clinical setting, graduate students will be prepared to decide on the feeding of a person or groups of people, whether they are healthy or ill, by taking into account their physiological and/or pathological needs and their personal, socioeconomic, cultural and religious preferences.
- In the community and public health settings, graduate students will be able

to act on the population, by developing and participating in epidemiological studies, intervention programs about nutrition and feeding, as well as in food and nutritional policy programs, whose objective is promoting health and preventing diseases by way of a healthy and balanced diet.

- In the social and mass catering setting, graduate students will manage and participate in the organization and development of the food service, they will coordinate and participate in continuing education activities, as well as they will be involved in issues related to food quality and safety, and specially in training food handlers.
- In the industry field, graduate students will advise on product innovation, evaluation of food nutritional quality and healthy properties and on social marketing related to food.

7. Useful Links

University Pablo de Olavide web site:

<<http://www.upo.es/portal/impe/web/portada?lang=en>>

Faculty of Experimental Sciences web site: <www.upo.es/fcex>

ARIC (Department of International Relations and Cooperation) → Information for foreign students <<https://www.upo.es/aric/foreign-students/>>

Seville Tourist Information: <<https://www.visitasevilla.es/en>>

8. Contact Us

Services and Administration staff

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