



STUDY SCIENCE IN SEVILLE

THE INTERNATIONAL CENTER



UNIVERSIDAD

**PABLO^D
OLAVIDE**
SEVILLA

CLASSES WITH A LAB COMPONENT



BIO 209E Anatomy and Physiology II

4 U.S. credits with lab - Fall semester only

This course provides an anatomical and physiological overview of human structure and function. Human gross anatomy and histology is related to cell, tissue, and organ level physiology for each of the major body systems. Topics include the musculoskeletal and central nervous systems as well as cardiovascular, renal and endocrine systems. Conducted In English.

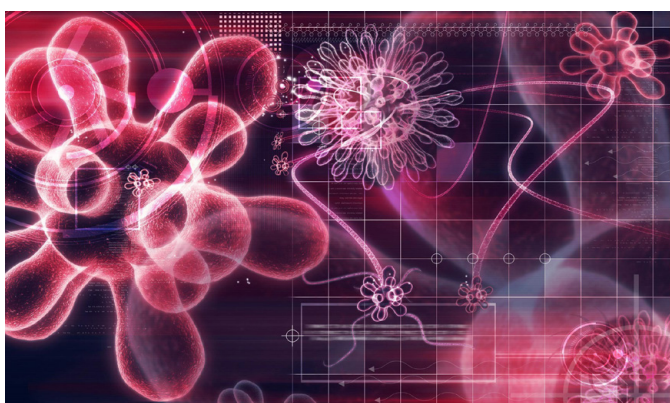
* A previous course in Anatomy and Physiology required.



BIO 242E Applied Microbiology

4 U.S. credits with lab - Fall semester only

This course is an introduction to basic concepts and unifying principles of microbiology. The goal of this course is to provide the student with an understanding of the general concepts in microbiology, as well as inform about the general practices used clinically to identify and treat the most common infectious agents. The course is oriented towards the clinical aspects of microbiology, but does introduce historically significant discoveries to convey important topics. The labs are designed to familiarize students with aseptic methods of microbiological techniques and with its applications in clinical and environmental microbiology. In English.



CHE 210E Organic Chemistry I

5 U.S. credits with lab - Fall semester only

Organic chemistry is the chemistry of the compounds of carbon. CHE 210 is the first half of a comprehensive one-year course suitable for science majors. The first semester course includes structural and functional aspects of saturated and unsaturated hydrocarbons with various heteroatom functionalities. Discussion focuses on the mechanistic basis for organic compound reactivity. First semester laboratories concentrate on the basic techniques and procedures used in organic syntheses and separations, including microscale techniques. In addition, modern analytical techniques (e.g. infrared spectroscopy) used in the identification of organic compounds will be discussed. Conducted in English.



CHE 211E Organic Chemistry II

5 U.S. credits with lab - Spring semester only

A continuation of CHE 210 with focus on complex chemical reactions and syntheses utilizing fundamental principles. The study of mechanistic functional group chemistry will be a primary focus. Second semester laboratory extends previously learned macro- and micro-scale techniques to more complex systems and explores chemistry discussed in the lecture portion of the course. In addition, modern analytical techniques (e.g. nuclear magnetic resonance spectroscopy, UV-visible spectroscopy, and mass spectrometry) used in the identification of organic compounds will be discussed. Conducted in English.

* A previous CHEM 210E course required.

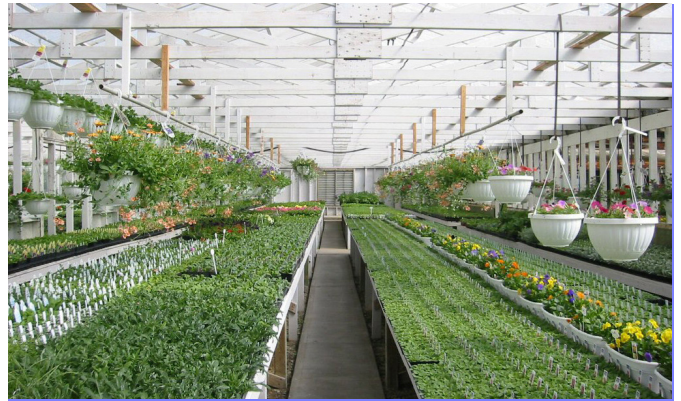
CLASSES WITH A FIELD WORK COMPONENT



NUTR 301E The Mediterranean Diet: From Fiction to Facts

The objective of this course is to show the composition of the authentic Mediterranean diet and study from a biological point of view the components that are responsible for the positive effects for health. The course is intended to teach students about the important role of nutrition on longevity and diseases related to aging. The Mediterranean diet is a type of diet located geographically in countries bordering the Mediterranean Sea. This diet has unique characteristics since it combines excellent gastronomic properties with a high and extremely healthy nutritional value.

Conducted in English



ECOL 320E Ecological Systems

3 U.S. credits

This course examines ecology and its large scale patterns and processes, both from an Iberian general perspective, the elements of time and space in the ecosystems, regulatory elements and the application of ecological principles in solving environmental problems. Conducted in English.



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