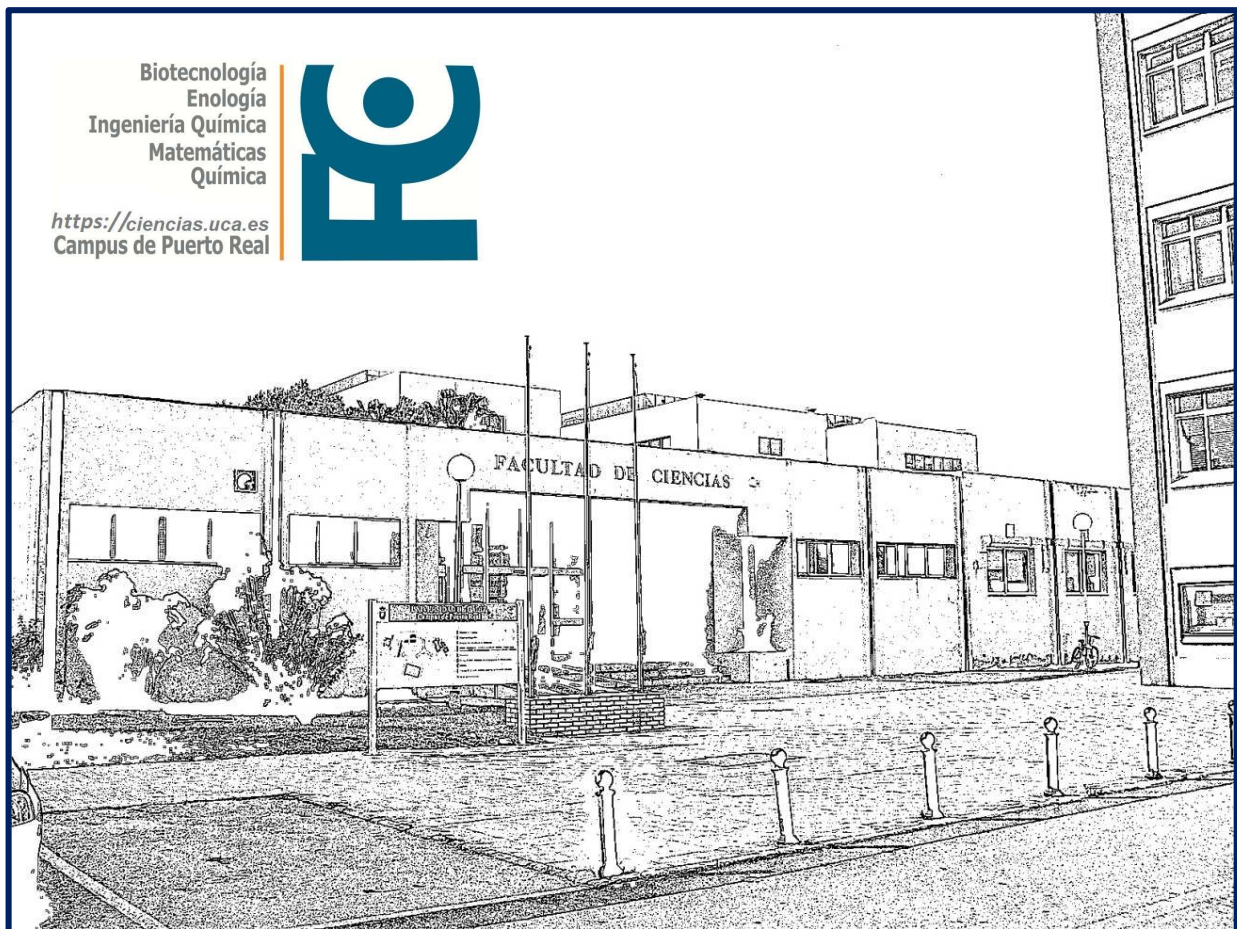


Biotechnology Degree



Science Faculty

Campus Universitario Río San Pedro.

11510 Puerto Real, Cádiz

Teléfono: 956 016 303

<http://ciencias.uca.es>



First Year

First Semester

Code	Subject	ECTS
40211001	Maths I	6
40211003	Physics I	6
40211009	Biochemistry	6
40211007	Biology	6
40211004	Chemistry I	6

Second Semester

Code	Subject	ECTS
40211002	Maths II	6
40211006	Integrated Chemistry Laboratory	6
40211010	Biochemistry	6
40211005	Biology	6
40211008	Chemistry I	6

Second Year

Third Semester

Code	Subject	ECTS
40211032	Organic Chemistry	6
40211012	Physics II	6
40211028	Informatics	6
40211011	Statistics	6
40211013	Animal and Vegetal Biology	6

Fourth Semester

Code	Subject	ECTS
40211014	Genetics	6
40211015	Virology	6
40211020	Bioprocess Engineering Principles	6
40211017	Dynamic Biochemistry	6
40211033	Kinetic and Thermodynamic	6

Third Year

Fifth Semester

Code	Subject	ECTS
40211022	Separation Operations	6
40211021	Fluid Flow and Heat Transmission Operations	6
40211016	Immunology	6
40211018	Molecular Genetics	6
40211019	Molecular Biology and Genetic Engineering Laboratory	6



Sixth Semester

Code	Subject	ECTS
40211025	Industrial Microbiology	6
40211024	Bioreactors	6
40211026	Genetic Improvement	6
40211023	Biotechnology Process	6
40211027	Biotechnology Process Laboratory	6

Fourth Year

Seventh Semester

Code	Subject	ECTS
40211030	Biomic Analysis	6
40211029	Organization and Business Management	6
40211034	Advanced Technics Instrumental Analysis	6
40211036	Safety, Biosafety and Ethical Aspects of Biotechnology	6
40211035	Cells Cultures and Biotechnological Applications	6
40211031	Organization and Project Management	6

Eighth Semester

Code	Subject	ECTS
40211025	Optative 1	6
40211024	Optative 2	6
40211026	Optative 3	6
40211023	Final Project	12

Optative (6 ECTS each):

- MOLECULAR MICROBIOLOGY
- CELULAR AND GENETICS IMMUNOTHERAPY
- BIOTECHNOLOGY OF REPRODUCTION
- BIOREFINERY
- FOOD BIOTECHNOLOGY
- ENVIRONMENTAL BIOTECHNOLOGY
- BIOLOGICAL CHEMISTRY
- BIOMARKERS AND BIOSENSORS
- BIOTECHNOLOGY IN THE PHARMACEUTICAL DEVELOPMENT