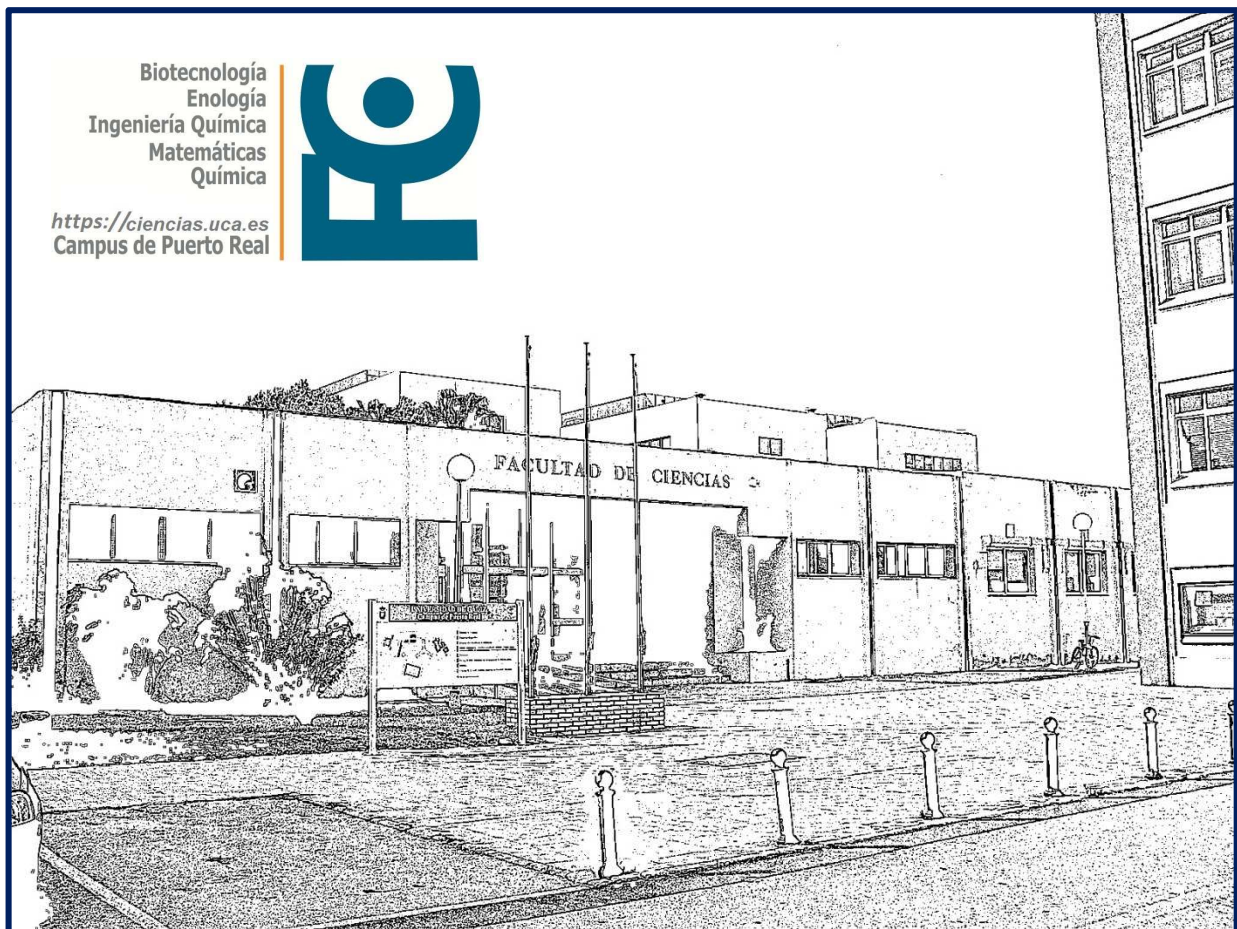


## Maths Degree



### 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
40209003	Linear Geometry	6
40209001	Infinitesimal Calculus I	6
40209018	Discrete Mathematic	6
40209005	Basic Algebraic Structures	6
40209007	Computer Science I	6

### Second Semester

Code	Subject	ECTS
40209004	Linear Algebra	6
40209002	Infinitesimal Calculus II	6
40209006	Introduction to probability and statics	6
40209009	Physics	6
40209008	Computer Science II	6

## Second Year

### Third Semester

Code	Subject	ECTS
40209011	Analysis of functions of several variables	6
40209017	Algebraic Structures	6
40209019	Affine Geometry	6
40209020	Topology	6
40209025	Numerical Analysis	6

### Fourth Semester

Code	Subject	ECTS
40209012	Integration	6
40209010	Physics II	6
40209015	Differential Equations I	6
40209023	Probability Theory	6
40209026	Numerical analysis II	6

## Third Year

### Fifth Semester

Code	Subject	ECTS
40209013	Vector Calculus	6
40209014	Complex analysis	6
40209024	Statical Interference	6
-	Optimitation	6
Optional Module A		

### Sixth Semester

Code	Subject	ECTS
40209016	Differential Ecuations II	6
40209021	Differential Geometry	6
40209022	Differential topology	6
40209028	Mathematical Modeling	6
Optional Module A		

## Fourth Year

### Seventh Semester

Code	Subject	ECTS
	Optative	6
	Optative	6
	Optative	6
	Optative	6
	Final Proyect	

### Seventh Semester

Code	Subject	ECTS
	Optative	6
	Optative	6
	Optative	6
	Optative	6
	Final Proyect	

**Optative (6 ECTS each)**

- COMPLEX VARIABLE AND FOURIER ANALYSIS
- FUNCTIONAL ANALYSIS
- GALOIS THEORY
- MANIFOLDS GEOMETRY
- PARTIAL DIFFERENTIAL EQUATIONS
- NUMERICAL CALCULUS
- MATHEMATICS FOR BUSINESS OPERATIONS
- MATHEMATICS FOR RISKY ANALYSIS BUSINESS
- MATHEMATICS FOR FUNDAMENTS OF DATA INFORMATION
- CODES AND CRYPTOGRAPHY
- TIME SERIES AND STOCHASTIC PROCESSES
- MULTIVARIATE STATISTIC ANALYSIS
- OPERATIONS RESEARCH MODELING
- NON-LINEAR PROGRAMMING AND SCIENTIFIC COMPUTING
- ASTRONOMY AND GEODESY
- ARTIFICIAL SATELLITE AND GEOMATIC