

Engineering Chemistry Degree



Science Faculty

Campus Universitario Río San Pedro.

11510 Puerto Real, Cádiz

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<http://ciencias.uca.es>



First Year

First Semester

Code	Subject	ECTS
40210001	Calculus	6
40210009	Graphic expression and design	6
40210007	Informatics	6
40210005	Physics I	6
40210008	Chemistry I	6

Second Semester

Code	Subject	ETCS
40210003	Stadistics and optimitation	6
40210006	Physics II	6
40210010	Organization and business management	6
40210002	Geometry and algebra	6
40210021	Chemical engineering principles	6

Second Year

Third Semester

Code	Subject	ECTS
40210004	Mathematics advanced	6
40210014	Science and engineering of materials	6
40210030	Chemistry II	6
40210031	Integrated laboratory of chemistry	6
40210022	Energy and matter balance	6

Fourth Semester

Code	Subject	ETCS
40210011	Heat transmission operations	6
40210013	Fluid flow	6
40210015	Electronics and electrotechnics	6
40210018	Theory of machines, mechanism and manufacturing processes	6
40210032	Thermodynamic applied to chemical engineering	6



Third Year

Fifth Semester

Code	Subject	ETCS
40210012	Energetic technology	6
40210016	Automatic regulation	6
40210017	Materials resistance	6
40210024	Engineering of chemical reactions	6
40210023	Basic operations of separations	6

Sixth Semester

Code	Subject	ECTS
40210019	Environmental technology	6
40210033	Design of separation operation	6
40210025	Reactor design	6
40210028	Experimental chemical engineering I	6
40210026	Industrial chemistry	6

Fourth Year

Seventh Semester

Code	Subject	ECTS
40210027	Simulation and optimization of chemical processes	6
40210029	Experimental chemical engineering II	6
40210020	Engineering projects	6
	Optative	6
	Optative	6

Seventh Semester

Code	Subject	ECTS
40210034	Operation maintenance and safety in pilot plant	6
	Optative	6
40210041	Final project	18

Optative (6 ECTS each):

- Management of Integrated systems
- Production Management
- Management of Resources and Capacities
- Applied Biochemistry
- Industrial Microbiology
- Bioreactors Design