

Faculty of Chemical Sciences of Ciudad Real		
Degree in Chemistry		
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<b>Description of the Syllabus</b>	<b>Professional Qualification</b>	Degree in Chemistry
	<b>Duration</b>	Five years
	<b>Division in Cycles</b>	Two cycles

<b>Name of the Faculty/Centre</b>	Faculty of Chemical Sciences of Ciudad Real
<b>Professional Qualification</b>	Degree in Chemistry
<b>Date of the Syllabus</b>	1999
<b>Overall number of classes in UCLM credits</b>	333 UCLM credits
<b>Overall number of classes in ECTS credits</b>	300 ECTS credits

#### First Year

Code	Subject	ECTS Credits
	<b>1<sup>st</sup> Semester</b>	
57200	Chemical Bonding and Structure of the Matter	8
	<b>Annual Subjects</b>	
57201	Biochemistry	9
57202	Applied Physics	15
57203	Mathematics	15
	<i>Optional Course</i>	4,5
	<b>2<sup>nd</sup> Semester</b>	
57204	Fundamentals of Chemistry	8
	<b>TOTAL</b>	<b>59.5</b>

**Second Year**

Code	Subject	ECTS Credits
	<b>1<sup>st</sup> Semester</b>	
57209	Introduction to Experimental Analytical Chemistry	7
57208	Physical Chemistry I	5
	<b>2<sup>nd</sup> Semester</b>	
57211	Introduction to Experimental Inorganic Chemistry	7
57210	Physical Chemistry II	7
	<b>Annual Subjects</b>	
57205	Analytical Chemistry	8
57206	Inorganic Chemistry	11
57207	Organic Chemistry	11
	<i>Free Configuration</i>	4,5
	<b>TOTAL</b>	<b>60.5</b>

**Third Year**

Code	Subject	ECTS Credits
	<b>1<sup>st</sup> Semester</b>	
57215	Introduction to Experimental Organic Chemistry	8
57217	Physical Chemistry III	7
57214	Ampliation of Inorganic Chemistry	4
	<b>2<sup>nd</sup> Semester</b>	
57218	Introduction to Experimental Physical Chemistry	8
57212	Fundamentals of Instrumental Analysis	7
57216	Ampliation of Organic Chemistry	6
	<b>Annual Subjects</b>	
57212	Chemical Engineering	10
	<i>Optional Course</i>	5,5
	<i>Free Configuration</i>	5,5
	<b>TOTAL</b>	<b>61</b>

**Fourth Year**

Code	Subject	ECTS Credits
	<b>1<sup>st</sup> Semester</b>	
57227	Industrial Chemistry Processes	5
57228	Advanced Analytical Chemistry	7
57229	Advanced Physical Chemistry I	5
57230	Advanced Inorganic Chemistry	7
57231	Advanced Organic Chemistry I	5
	<i>Free Configuration</i>	4
	<b>2<sup>nd</sup> Semester</b>	
57226	Structure Determination	7
57232	Experimental Analytical Chemistry	5
57233	Experimental Inorganic Chemistry	5
57234	Advanced Physical Chemistry II	5
57235	Advanced Organic Chemistry II	4
	<b>TOTAL</b>	<b>59</b>

**Fifth Year**

Code	Subject	ECTS Credits
	<b>1<sup>st</sup> Semester</b>	
57239	Experimental Physical Chemistry	5
57236	Materials Science I	4
	<i>Optional Course</i>	28
	<i>Free Configuration</i>	14

	<b>2<sup>nd</sup> Semester</b>	
57237	Experimental Organic Chemistry	5
57238	Materials Science II	4
	<b>TOTAL</b>	<b>60</b>

### Optional Courses

Code	Subject	ECTS Credits
	<b>FIRST CYCLE OPTIONAL COURSES</b>	
57219	Crystallography and Mineralogy	4,5
57220	Education in Chemistry	4,5
57221	Informatics for Chemists	4,5
57222	Advanced Biochemistry	5,5
57223	Physiology	5,5
57224	Microbiology	5,5
57225	Optics Applied to Chemistry	5,5
	<b>SECOND CYCLE OPTIONAL COURSES</b>	
57240	Advanced Experimental Chemistry	5
57241	Ampliation of Reaction Mechanisms	5
57242	Applied Inorganic Chemistry	5
57243	Industrial and Environmental Biochemistry	4
57244	Molecular Spectroscopy	6
57245	Analytical Optical Methods	6
57259	Computational Chemistry	4
57246	Organometallic Chemistry	5
57247	Heterocyclic Chemistry	5
57248	Atmospheric Physical Chemistry	6
57249	Advanced Organic Synthesis	6
57250	Ampliation of Structural Determination	4
57251	Ampliation of Coordination and Bioinorganic Chemistry	5
57252	Ampliation of Organometallic Chemistry and their Application in Homogeneous Catalysis	5
57253	Applied Analytical Chemistry	6
57254	Clinical Biochemistry	4
57255	Advanced Chemical Kinetics	6
57256	Separation Methods	5
57257	Electroanalytical Methods	4
57258	X-Ray Diffraction Methods	4