

CHEMISTRY DEGREE

International accreditation EUROBACHELOR



ACADEMIC YEAR 2020/2021

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| | |
| Studies | Chemistry Degree |
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| Centre | Faculty of Sciences C/ Francisco Tomás y Valiente, 7 Campus de Cantoblanco 28049 – Madrid Phone: 914976879 |
| | Web page |
| | |
| Knowledge Branch | Sciences |
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| ECTS Credits | 240 |
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| ECTS CREDITS | |
|-----------------------------|------------|
| Basic training (FB) | 66 |
| Compulsory (OB) | 132 |
| Optional (OP) | 24 |
| External practical (PE) | - |
| End-of-degree Project (TFG) | 18 |
| Total | 240 |



Universidad Autónoma
de Madrid

FIRST YEAR

| Code | Subject | Credits | Type | Semester |
|--------------|--|---------|------|----------|
| <u>16349</u> | INICIAL EXPERIMENTAL WORK IN CHEMISTRY | 6 | FB | Annual |
| <u>16352</u> | COMPUTATIONAL TOOLS FOR CHEMISTS | 6 | FB | Annual |
| <u>19317</u> | GENERAL CHEMISTRY I | 6 | FB | 1 |
| <u>19319</u> | PHYSICS I | 6 | FB | 1 |
| <u>19321</u> | MATHEMATICS I | 6 | FB | 1 |
| <u>16354</u> | GEOLOGY | 6 | FB | 1 |
| <u>19318</u> | GENERAL CHEMISTRY II | 6 | FB | 2 |
| <u>19320</u> | PHYSICS II | 6 | FB | 2 |
| <u>19322</u> | MATHEMATICS II | 6 | FB | 2 |
| <u>16353</u> | BIOLOGY | 6 | FB | 2 |

SECOND YEAR

| Code | Subject | Credits | Type | Semester |
|--------------|-------------------------|---------|------|----------|
| <u>19323</u> | ANALYTICAL CHEMISTRY I | 6 | OB | 1 |
| <u>19325</u> | PHYSICAL CHEMISTRY I | 6 | OB | 1 |
| <u>19327</u> | INORGANIC CHEMISTRY I | 6 | OB | 1 |
| <u>19329</u> | ORGANIC CHEMISTRY I | 6 | OB | 1 |
| <u>16359</u> | STATISTICS | 6 | FB | 1 |
| <u>19324</u> | ANALYTICAL CHEMISTRY II | 6 | OB | 2 |
| <u>19326</u> | PHYSICAL CHEMISTRY II | 6 | OB | 2 |
| <u>19328</u> | INORGANIC CHEMISTRY II | 6 | OB | 2 |
| <u>19330</u> | ORGANIC CHEMISTRY II | 6 | OB | 2 |
| <u>16360</u> | BIOCHEMISTRY | 6 | OB | 2 |

THIRD YEAR

| Code | Subject | Credits | Type | Semester |
|--------------|--------------------------------------|---------|------|----------|
| <u>19331</u> | INSTRUMENTAL ANALYTICAL CHEMISTRY I | 6 | OB | 1 |
| <u>19333</u> | PHYSICAL CHEMISTRY III | 6 | OB | 1 |
| <u>19335</u> | ADVANCED INORGANIC CHEMISTRY I | 6 | OB | 1 |
| <u>19337</u> | ADVANCED ORGANIC CHEMISTRY I | 6 | OB | 1 |
| <u>16367</u> | STRUCTURAL CHARACTERIZATION | 6 | OB | 1 |
| <u>19332</u> | INSTRUMENTAL ANALYTICAL CHEMISTRY II | 6 | OB | 2 |
| <u>19334</u> | PHYSICAL CHEMISTRY IV | 6 | OB | 2 |
| <u>19336</u> | ADVANCED INORGANIC CHEMISTRY II | 6 | OB | 2 |
| <u>19338</u> | ADVANCED ORGANIC CHEMISTRY II | 6 | OB | 2 |
| <u>16366</u> | CHEMICAL ENGINEERING | 6 | OB | 2 |



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FOURTH YEAR

| Code | Subject | Credits | Type | Semester |
|--------------|--|---------|------|----------|
| <u>16370</u> | END-OF-DEGREE PROJECT | 18 | TFG | Annual |
| <u>16365</u> | MATERIALS SCIENCE | 6 | OB | 1 |
| <u>16368</u> | ADVANCED EXPERIMENTAL WORK | 6 | OB | 1 |
| <u>16369</u> | PROJECTS AND PROCESSES IN THE INDUSTRIAL CHEMISTRY | 6 | OB | 1 |
| | OPTIONAL | 24 | OP | 1 y 2 |

OPTIONAL SUBJECTS

ROUTE: PRACTICAL CHEMISTRY

| Code | Subject | Credits | Type | Semester |
|--------------|---|---------|------|----------|
| <u>16376</u> | ENVIRONMENTAL CHEMISTRY | 6 | OP | 1 |
| <u>16377</u> | BIOINORGANIC CHEMISTRY | 6 | OP | 1 |
| <u>16378</u> | COMPUTER CHEMISTRY | 6 | OP | 1 |
| <u>16372</u> | GEOCHEMISTRY | 6 | OP | 2 |
| <u>16373</u> | NANOCHEMISTRY | 6 | OP | 2 |
| <u>16374</u> | NATURAL PRODUCTS AND PHARMACEUTICAL CHEMISTRY | 6 | OP | 2 |
| <u>16375</u> | FOOD CHEMISTRY | 6 | OP | 2 |
| <u>16379</u> | FORENSIC CHEMISTRY | 6 | OP | 2 |
| <u>16381</u> | GREEN CHEMISTRY | 6 | OP | 2 |
| <u>16371</u> | PRACTICAL BIOCHEMISTRY AND BIOTECHNOLOGY * | 6 | OP | |
| <u>16380</u> | CHEMISTRY FOR AGRICULTURE * | 6 | OP | |

*Not offered in 2020/2021

ROUTE: BUSINESS AND CHEMICAL INDUSTRY

| Code | Subject | Credits | Type | Semester |
|--------------|-------------------------------|---------|------|----------|
| <u>16382</u> | EXTERNAL PRACTICAL | 6 | OP | 1 and 2 |
| <u>16383</u> | BUSINESS MANAGEMENT | 6 | OP | 1 |
| <u>16384</u> | QUALITY CONTROL AND ASSURANCE | 6 | OP | 2 |