



Universidad de Granada

Undergraduate Degree in Computer Engineering and Mathematics

The majority of technological advances that we benefit from every day, such as 3D graphics, mp3 audio compression, GPS navigation or mobile telephones, would not have been possible without computer engineering and mathematics. The combined application of these two disciplines is the cornerstone of all new technological breakthroughs that are made nowadays.

The disciplines of mathematics and computer engineering at the University of Granada have enjoyed prestige both nationally and internationally. Our Degree has been developed in response to the growing demand for professionals with a solid grounding in both computing and mathematics. And our experienced teaching staff and the quality of their research has positioned our degree at the forefront of university education nationally and internationally.

Indeed, the UGR is currently ranked 42nd in the world in the field of computer science and among the top 101-150 in Mathematics (Shanghai Academic Ranking of World Universities or ARWU 2015).

Our students can choose to study our Degree in Computer Engineering, or our Degree in Mathematics —both corresponding to four years of study or 240 credits— or combine these studies in our Degree in Computer Engineering and Mathematics, which corresponds to five academic years of study or 369 credits.

Our programme in Computer Engineering covers areas such as programming, data structures, operating systems, software engineering, databases, computer networking, computer structure, server engineering, artificial intelligence and models of computation.

Our programme in Mathematics provides students with a solid grounding in areas such as calculus, algebra, mathematical analysis, geometry, statistics, numerical analysis, logic, differential equations, topology, probability and complex analysis.

Our graduates are highly qualified to work in a great number of areas, such as in data management, research, teaching, telecommunications, technology, safety, hardware and software development and ICT consulting.

Mathematics and computer engineering have been the key to developing technology as we know it today, and will be vital in furthering technological and scientific breakthroughs. Technology such as search engines, 3D graphics, data storage and compression, weather forecasting, bar-coding, fingerprint identification and different technological applications in the health sciences, like artificial heart valves, would not have been developed without these two disciplines.

By studying our degree, you too can contribute to the technological progress of society.

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| ECTS Credits | 240 |
| Duration | 4 academic years (September/October to June each year approximately) |
| Start Date | Autumn |
| Language | Spanish |
| Tuition Fees | €757 (approximately) |
| Application Period | June - September (approximately) |
| Offered by | Vice-Rector's Office for Undergraduate and Postgraduate Teaching |
| How to apply | Please visit the Applications and Admissions Section |

[DEGREE WEBSITE](#)