The master's degree qualifies you to practise the regulated profession of civil engineer.

You will write your master's thesis on an innovative, creative topic in one of the areas of specialisation.

Your talent, leading your future

Further information:
www.camins.upc.edu/estudis
The master’s degree in Civil Engineering provides advanced multidisciplinary and technological training. It will introduce you to research, design and analysis and qualify you to practise as a civil engineer.

The curriculum reinforces the grounding in physics, mathematics and general science and technology provided by the bachelor’s degree by using the most advanced and experimental techniques for modelling in the field of engineering. It provides future professionals with a solid technical basis for designing and overseeing the development of infrastructure and planning and managing environmental services and resources in order to contribute to spatial planning.

Which subjects will you choose?

The programme comprises a total of 120 credits, divided into four semesters (two academic years).

- Continuous Media Mechanics: 9 ECTS
- Numerical Modelling: 9 ECTS
- Structural Analysis: 7.5 ECTS
- Hydraulic Infrastructure: 4.5 ECTS
- Structural Engineering: 6 ECTS
- Computational Engineering: 6 ECTS
- Geomechanics and Geotechnical Engineering: 8 ECTS
- Water Engineering: 8 ECTS
- Regional Transport Planning and Management: 6 ECTS

First year

You will choose an area of specialisation (35 credits).

- Specialisation in Structural Engineering and Construction: 35 ECTS
- Specialisation in Geotechnical Engineering: 35 ECTS
- Specialisation in Water Engineering: 35 ECTS
- Specialisation in Computational Engineering: 35 ECTS
- Specialisation in Transport Engineering and Urbanism: 35 ECTS
- Specialisation in Environmental Engineering and Sustainability: 35 ECTS
- Master’s Thesis: 25 ECTS
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</tbody>
</table>

### Second year

You will choose an area of specialisation (35 credits).

<table>
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</tbody>
</table>

**Career opportunities**

The master’s degree promotes the acquisition and development of the skills needed for employment in national and international engineering firms, construction companies, consultancy firms, government organisations and research institutes. Employment may also be sought in the supervision of maritime and coastal work teams, water resources and supply, structural design, spatial planning, logistics, transport and the environment, and computational mechanics, although civil engineers are also increasingly employed in various areas of business, thanks to their analytical skills and ability to solve complex problems, which are highly valued in industry and in the service sector.

**Languages**

We promote foreign language learning by increasing, year by year, the number of courses taught in English.

**Internacionalisation**

We offer over 200 international mobility places to take courses or the master’s thesis abroad.

**Requirements**

This master’s degree is aimed at graduates of degrees in civil and public works engineering within the framework of an integrated academic programme. Graduates of other university degrees may need to take bridging courses. For further information on these requirements, visit the master’s degree website: www.camins.upc.edu/estudis

**International recognition**

Every year, the School’s teaching staff receive national and international prizes and awards for their teaching and research. Both the QS World University Rankings and the National Taiwan University Ranking (NTU Ranking) rank the University as the top Spanish university in the field of civil engineering, and 39th and 50th in the world, respectively.
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