Bachelor's degree in Civil Engineering

Civil engineers are professionals who have good analytical and decision-making skills, which allow them to find efficient and sustainable solutions to complex technological and engineering problems. They are graduates who are professionally qualified to plan, manage, construct and conserve civil engineering projects. On this bachelor's degree you will acquire a solid grounding and broad mastery of technical knowledge and work management skills.

Civil engineers are already contributing to meeting the UN's Sustainable Development Objectives, and civil engineering is a versatile area of knowledge that is present in a great number of spheres of action, many of them emerging and strategic, such as sustainable mobility, water supply, renewable energies and the energy transition, smart cities, just-in-time logistics, the circular economy and climate change.

### GENERAL DETAILS

<table>
<thead>
<tr>
<th><strong>Duration</strong></th>
<th>4 years</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Study load</strong></td>
<td>240 ECTS credits (including the bachelor's thesis). One credit is equivalent to a study load of 25-30 hours.</td>
</tr>
<tr>
<td><strong>Delivery</strong></td>
<td>Face-to-face</td>
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<tr>
<td><strong>Language of instruction</strong></td>
<td>Group taught 100% in English</td>
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<tr>
<td></td>
<td>Check the language of instruction for each subject (and timetable) in the course guide in the curriculum.</td>
</tr>
<tr>
<td></td>
<td>Information on language use in the classroom and students' language rights.</td>
</tr>
<tr>
<td><strong>Fees and grants</strong></td>
<td>Approximate fees per academic year: €1,107 (€2,253 for non-EU residents). Consult the public fees system based on income (grants and payment options).</td>
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<tr>
<td><strong>Location</strong></td>
<td>Barcelona School of Civil Engineering (ETSECCPB)</td>
</tr>
<tr>
<td><strong>Official degree</strong></td>
<td>Recorded in the Ministry of Education's degree register</td>
</tr>
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</table>

### ADMISSION

| **Places** | 160 |
| **Registration and enrolment** | What are the requirements to enrol in a bachelor's degree course? |
| **Legalisation of foreign documents** | All documents issued in non-EU countries must be legalised and bear the corresponding apostille. |

### PROFESSIONAL OPPORTUNITIES

| **Professional opportunities** | Civil engineers join companies dealing with infrastructure, water flows, energy, goods and people as specialists, managers, designers, consultants and builders; ports, airports, stations and logistics centres; companies and institutions that manage natural resources and recycling and that intervene in the public use of cities; and |
consultancies and quality laboratories.
- Sustainable and safe mobility
- Universal right to water supply
- Renewable energies and the energy transition
- Mitigation of causes and effects of climate change
- Resilience to natural disasters
- Circular economy
- Smart cities
- Just-in-time logistics

For all of the above, civil engineering is entrusted with planning, conceiving, designing, building, maintaining, integrating and managing:
- Transport infrastructure for intelligent mobility
- Roads and channels that move water, energy, goods and people
- Ports, airports, stations and logistics centres
- Natural resource and waste recycling management systems
- Public spaces in cities

These areas of work can be approached from different perspectives, from a public or private body, from the point of view of a manager, a designer, a consultant or a builder. Other areas are teaching, research and innovation.

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**ORGANISATION: ACADEMIC CALENDAR AND REGULATIONS**

**Academic calendar**
General academic calendar for bachelor's, master's and doctoral degrees courses

**Academic regulations**
Academic regulations for bachelor's degree courses at the UPC

**Language certification and credit recognition**
Queries about language courses and certification

Barcelona School of Civil Engineering (ETSECCPB)

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**CURRICULUM**

<table>
<thead>
<tr>
<th>Subjects</th>
<th>ECTS credits</th>
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<td>Calculus</td>
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<td>Probability and Statistics</td>
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<td>Representation Techniques</td>
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<td>Strength of Materials</td>
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