

Civil and Environmental Engineering

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WHAT IS CIVIL AND ENVIRONMENTAL ENGINEERING?

Civil engineering—said to be the oldest engineering discipline—deals with the planning, construction and maintenance of residential, office and administrative properties, industrial buildings, bridges, roads, railroads, tunnels, airports, harbors, canals, dikes and dams. It also deals with the planning and construction of supply and disposal systems and municipal infrastructural, with the management of waterways, ground water, waste water and waste, and with fundamental issues of environmental protection and sustainability.

WHERE DO I COME ACROSS CIVIL AND ENVIRONMENTAL ENGINEERING IN EVERYDAY LIFE?

Civil engineers plan and build a wide range of buildings, such as residential and commercial properties, and structures such as roads, bridges, railroads, airports and harbors. Today they also deal with environmental problems such as energy rehabilitation of residential and office buildings, the production, processing and distribution of von drinking water, etc. Protection of rivers and seas and protection from forces of nature by dikes and dams are further important tasks. Coastal defenses are another priority, especially in Hamburg and in North Germany. This issue is of course of the utmost global significance in view of rising sea levels.

WHAT WILL I LEARN IN MY STUDIES?

The main focus of the B.Sc. program in civil and environmental engineering is on the basic training—on both the methodical and the theoretical foundations of civil and environmental engineering. Your studies begin mainly with mathematical and scientific subjects and with the basics of, for example, construction material science and design theory.

WHAT IS REQUIRED OF ME?

You will need a basic understanding of mathematical and scientific relations and technology. As a student you will often need to motivate yourself to learn something. There is very little obligation to attend and the exam is not until the very end of the semester. If you are receptive and take part in campus life, such as in AGs, or working groups, you will soon find learning groups and get to know students in higher semesters.

WHY CIVIL AND ENVIRONMENTAL ENGINEERING OR WHERE WILL I LATER FIND A JOB?

There are many employment areas: classical building construction, multi-story office building construction, bridge building, underground and harbor construction. A new area is offshore construction, and then there is hydraulic engineering, waste water planning and road building. Civil and environmental engineers are also very much in demand in research institutions, public authorities and administration.

FURTHER STUDIES?

With a B.Sc. in civil and environmental engineering you can go on to study for a master's in the following subjects:

- [Civil Engineering](#)
- [Water and Environmental Engineering](#)
- [Environmental Engineering](#)
- [Joint Master in Environmental Studies: Cities and Sustainability](#)
- [International Management and Engineering](#)