



Civil Engineering

Short degree programme | Enschede



Engineers are in high demand all over the world!

Dutch education focuses on fostering student independence, team spirit and presentation skills. On top of that, Saxion's programmes are known for interweaving theory with practical experience. Civil Engineering forms an excellent basis for a career in government, construction business or public services, whether in your home country or anywhere else in the world.

general

One year

The Short Degree Programme of Civil Engineering lasts one year (60 ECTS). This one year programme is specifically designed for students from our partner universities abroad. Upon successful completion of the programme, you obtain the title Bachelor of Built Environment, majoring in Civil Engineering.

Our teaching style

Saxion's way of teaching is closely related to the Dutch way of teaching. However, our experience with international students has shown that international students are not always able or willing to adopt this Dutch way of learning. Especially students from cultures with a large power distance have found it difficult to adopt the Dutch education system, as they are now asked to share their own

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opinions and be critical of what they read and what lecturers say. Therefore, the Short Degree Programme starts with lecture based education and some small in-class assignments. This way students settle more easily in their new life as an international student. During the year the way of teaching will depend more and more on teamwork and interaction. Respect for all opinions will be promoted equally during the whole year.

Interaction in class

Interaction in class is highly appreciated. Students are expected to think about the knowledge that is presented to them and develop and express their own opinions. Students are free to ask questions and be critical of what lecturers or fellow students say. Students are stimulated to use their own creativity to apply their newly-gained knowledge.

Respect for all opinions

Our teaching method is founded on respect for each individual's opinions and convictions. This mind-set is not limited to Saxion or education institutions, it is a national characteristic. It is the foundation for Holland's diverse and plural society.

Upon graduation you receive the title of **Bachelor of Built Environment, majoring in Civil Engineering**. This will give you an excellent springboard to the international labour market: as a technical designer in an engineering company, as a project leader at a consultancy firm or as a construction engineer for a multinational company – all this and more could be printed on your business card! This degree also opens up great job opportunities in your own country. If you prefer to continue studying, you will be welcome to do a master in Civil Engineering at almost any university, both within and outside Europe.

graduated

Practically-oriented

Saxion takes a competence-oriented and problem-guided approach to teaching, meaning that theory and practical experience are interwoven whenever possible. Students are continually challenged to apply their theoretical knowledge in practical situations, both individually and as part of an international project team. You may often find yourself putting things you have learnt in the morning into practice in the afternoon!

Subject descriptions

International programme

This programme is fully taught in the English language. You will work on international cases from the perspective of the global economy and gain insights into many different cultures – not only from books but also from your classmates, who come from all four corners of the world. This international character can also be found in the final report. Become a creative Civil Engineer and specialize in Dutch water safety through hydraulic design and water management.

1. Essentials of hydraulic structures

This module is meant to get you up to speed with the latest European and Dutch design regulations. You will work on the fundamental design of hydraulic structures as used in common water safety problems.

2. Probabilistic Design of Flood Defenses

The Dutch are world famous for our Delta works. Crucial parts in this complex safety system are dykes, polders and sluices. You will look at these



flood defense systems from a probabilistic viewpoint: what are the optimal dyke heights in a particular area? Which flood defense systems are most cost effective? What are the financial implications when a hydraulic system fails?

3. Integrated Design of Infrastructures

In this module you will utilize digital technologies to design safe infrastructures, both on land and on water.

4. Applied Water Project

In this module you develop your project management and communication skills. You will practice with both oral and written communication strategies, and develop the necessary skills to successfully complete the project reports and presentations. Additionally you will receive extra guidance on how to use the English language in an academic setting and learn how to work with Dutch students.

5. Applied Urban Water Management

Much of the water problems in the world occur in urban areas. Cities flood easily, are too dry to promote health and wellbeing for its citizens or do not use sustainable solutions for storing and using rainwater. In this module you will learn which options for sewerage and water storage are available, and how to select the best option for a particular situation and area.

6. Final Project - Preliminary research

Before starting the dissertation project, you need to carry out a preliminary research. In this preliminary research you analyse your problem and its context in a specific geographical area. For this problem you will look into different alternative solutions, and make an argued choice for a method to determine the definitive solution. Based on the findings from the preliminary research, you will make a design for the chosen solution to your civil engineering problem in its relevant context. At the end of the project you will present your work in a presentation and a report. During the presentation you will also answer questions about the argument structure as used in the dissertation report.

Engineers are in high demand all over the world, in a wide diversity of specialisations and organisations: within hydraulics, water management and infrastructure as well as bridge design and structural engineering. The Saxion Civil Engineering programme is an internationally recognised bachelor degree programme which prepares you for a career in the dynamic engineering industry.



Get Ready for a Smart World

Technological innovations have an impact not only on your social life but on your future professional life too.

At Saxion University of Applied Sciences, we teach you how these innovations impact your future professional field and how you can apply technology to perform your work even better, so no matter which programme you choose, you will be prepared for a world that is getting smarter.

Studying at Saxion also means growing as a person. Who are you as a person? Where do your talents lie and what do you want to excel at? We will help you develop a moral compass, build your self-confidence and broaden your horizon. You will learn a lot by working together in project groups with

real-life companies. This way, you will learn to take responsibility and prepare yourself for a business endeavour or a challenging job. You are in control!

More information

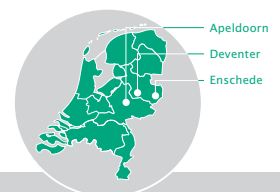
To enrol in Civil Engineering, first of all you need to meet our general entry requirements. Please check saxion.edu/entry-requirements for more information. If you have any questions about the requirements or the programme itself, feel free to contact Mr. Wytse Mensonides. E-mail: w.j.mensonides@saxion.nl

Would you like to apply? Start your application procedure at saxion.edu/application-form.

Saxion Enschede

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Saxion partners



information

