

Programme

Qualification awardedBachelor of Science

Length of the programme 48 months

ECTS credits

240

Level of qualification

Bachelor

Mode

Full-time

Language

Dutch, with parts in English

School

Institute of Future Environments

Locations

Groningen

Built Environment, major Civil Engineering

Profile of the programme

The Civil Engineering major centres around infrastructure in yet-to-be-built and built sea, land, coastal and freshwater environments. 'Infrastructure' should here be taken to include roads, railways and waterways. In addition to coastal structures aimed at protecting existing land, we will also explore technical methods used to reclaim land in the delta area. We will design artificial structures such as bridges, viaducts, sluices and ports. The Civil Engineering major focuses heavily on the aspects of technology and construction. Thorough knowledge of technology, construction, sustainability, water and soil is sorely needed in the professional practice. Among other skills, students will learn how to create the necessary designs and calculations for these infrastructure works. Over the course of the work placement, students will explore suitable professional roles. Students will discover how to combine coastal defences with recreation and tourism functions, or learn how to create a 'smart' dyke.

Learning outcomes

- 1. **Initiating and managing** Using a 'helicopter view' and a wide market orientation, students detect and survey tasks and potential and projects for society. Students are able to formulate preconditions, requirements and goals. Students are able to describe, monitor and manage the process.
- Designing The design can be a plan, model or advice, as well as a spatial or technological design.
 Students make the design based on a set programme of requirements, research various solutions and variants, and make a balanced choice.
- 3. **Specifying** Students make a specification related to the formulation of ambitions, preconditions and feasibilities, so the product can be steered. In accordance with the requirements set, students further elaborate a design. These requirements are specific to the professional group and encompass the quality requirements of the product to be submitted.
- Realising Students execute a design by preparing, maintaining, monitoring and steering its realisation.
- 5. **Managing** Students create a management and maintenance plan in order to safeguard the realised quality levels
- Monitoring, testing and evaluating Student are able to monitor and assess the submitted results
 objectively. In addition, students are able to make and implement adjustments as well as proposals
 for improvement.
- Researching Students are able to analyse an issue and identify a research question. Students are able to set up and conduct practice-based research.
- 8. Communicating and collaborating Students are able to transfer relevant professional knowledge to the field, colleagues and potential target groups (customers, clients, stakeholders). Students are able to communicate with internal and external parties in a manner suited to the target audience. 'Communication' here covers the entire spectrum across which information is received, conveyed and shared. Students are focused on collaboration and constructive harmonisation with stakeholders and target groups.
- 9. Managing and innovating Students steer and manage processes in order to achieve the set objectives. Students are self-directing and capable of reflecting on their own performance. Students are proactive, take the initiative, and are able to think and work outside of existing frameworks.

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Programme

Built Environment major Civil Engineering

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Year 1, Propedeutic year	60
BVVP15OCC - Occupation	15
BVVP15NET - Networks	15
BVVP15OND - Subsurface	15
BVVP15INT - Integration	15
Year 2, major Civil Engineering	60
semester 1 block 1	15
☐ T&C Technics & Construction 2.1	12
BVVH19TCWD1 - T&C Water and Delta 1	3
BVVH16TCWEG - T&C Road Engineering	3
BVVH16TCCONSTR1 - T&C Applied Mechanics 1	3
 BVVH16TCGROND - T&C Soil mechanics and sheet wall design 	3
☐ P&E People & Environment 2.1	3
BVVH16MOTRANS1 - M&E Society in Transition 1	3
semester 1 block 2	15
☐ T&C Technics & Construction 2.2	12

	 BVVH18TCKLIM - T&C Urban Climate adaptation 	3
	BVVH19TCWD2 - T&C Water and Delta 2	3
	BVVH16TCCONSTR2 - T&C Applied Mechanics 2	3
	BVVH16TCSTBET - T&C Steelstructures and reinforced concrete	3
	☐ P&E People & Environment 2.2	3
	 BVVH16MOBBR1 - M&E Policy and Regulations for Planning and Building 1 	3
	semester 2 work placement	30
	BVVH20BWP1 - Defining IWP	5
	BVVH20BWP2 - IWP Work placement	15
	BVVH20BWP3 - IWP Relection and report	10
Year 3, minors		60
	semester 1 or 2, minor typical to major	30
	one of following courses	
	☐ Minor Structural Engineering	30
	electives	
	☐ Minor Delta Engineering	30
	electives	
	semester 1 or 2, minor by choice	30
	electives	
Va	ear 4, workplacement graduation	60
	BVVH19AFPVA -	
		6 17
	BVVH19AFERV - Internship Final Thesis	17
	BVVH19AFPROD - Professional Product Final Thesis	21 16
0	BVVH19AFSTUDEER - Final Thesis Portfolio	16

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