

REGULATIONS

Bridging Programme AEROSPACE ENGINEERING

DELFT UNIVERSITY OF TECHNOLOGY

2024-2025

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Introduction to Bridging programme

The bridging programme is a preparatory programme for the MSc Aerospace Engineering. The major objective of the bridging programme is the further development of skills to an academic bachelor level in the domains of mathematics, mechanics, aerospace engineering and thinking and working in models. The bridging programme is open to students with a relevant degree from a Dutch university of applied sciences (HBO) and has to be completed within 2 years of registration before one can start the MSc.

This document contains the specific regulations for the bridging programme. Additionally, the Teaching and Examination Regulations BSc Aerospace Engineering, the Implementation regulations and the Rules and guidelines of the Board of Examiners apply.

Bridging Programme

Article A1 - Admission to the bridging programme

The bridging class is open to students who hold a B.Eng or BSc degree from a Dutch university of applied sciences in:

HBO Bachelor's degree programme	CROHO	University of Applied Sciences
HBO Automotive	30018	Fontys Hogescholen, Hogeschool Rotterdam, Hogeschool van Arnhem en Nijmegen
HBO Aviation	39225	Hogeschool van Amsterdam
HBO Civiele Techniek	34279	Avans Hogeschool, Christelijke Hogeschool Windesheim, De Haagse Hogeschool, Hogeschool INHOLLAND, Hogeschool NCOI, Hogeschool Rotterdam, Hogeschool van Arnhem en Nijmegen, HZ University of Applied Sciences, NHL Stenden Hogeschool, Saxion Hogeschool
HBO Luchtvaarttechnologie	34278	Hogeschool INHOLLAND
HBO Maritieme Techniek / Scheepsbouwkunde	30032	STC-Groep
HBO Mechatronica	30026	Avans Hogeschool, De Haagse Hogeschool, Fontys Hogescholen, Saxion Hogeschool
HBO Werktuigbouwkunde	34280	Avans Hogeschool, Christelijke Hogeschool Windesheim, De Haagse Hogeschool, Fontys Hogescholen, Hanzehogeschool Groningen, Hogeschool INHOLLAND, Hogeschool NCOI, Hogeschool Rotterdam, Hogeschool Utrecht, Hogeschool van Arnhem en Nijmegen, NHL Stenden Hogeschool, Saxion Hogeschool

Furthermore, the TU Delft entrance requirements apply:

<https://www.tudelft.nl/en/education/admission-and-application/msc-dutch-diploma/bridging-programmes>

Article A2 - The study load

The study load for the Bridging Programme is 51 EC.

Article A3 - Composition of the Bridging Programme

The table below outlines the general structure of the Bridging Programme

Course code	Course name	EC
Mathematics		25
WI1421LR	Calculus I	6
WI1402LR	Calculus II	5
WI2032TH	Numerieke Wiskunde – deeltentamen	3
IFEEMCS010400	Lineaire Algebra 1	5
WI1909TH	Differentiaalvergelijkingen	3
AE2220-II S	Computational Modelling	3
Engineering		14
AE1205	Programming and Scientific Computing in Python	2
AE2135-I-S	Structural Analysis and Design	5
AE2235 (module)	Aerospace Signals, Systems and Control	7
Aerospace Engineering		12
AE2230-I-S	Flight and Orbital Mechanics	4
AE2130-I-S	Aerodynamics-I	3
AE3212-I-S	Aerospace Flight Dynamics and Simulation, incl Flight Test	5
Total		51

Course descriptions can be found in the digital study guide of the TU Delft:

<https://studiegids.tudelft.nl/>

Article A4 - Pass/fail regulation courses

The student meets the requirements for the bridging programme once the following has been met:

- a result has been obtained for all subjects: a numerical mark, a pass (v) or an exemption (vr);
- none of the final numerical marks may be lower than 5.75

Grading (compensation) regulation modules WI1421LR and AE2235:

- The mark for a component (= one single course) of a module will be expressed in decimals.
- A result for a course may be included in the determination of the final mark only if it is at least 5.0. In the cases when a module consists of two courses or more, the final grade will then be calculated as follows: the final result is the weighted average of the courses, whereby the weight is the number of credits. The weighted average will be rounded off to half and whole figures, whereby a result equal to or higher than 6.0 is considered a pass. See table below.
- The final grade is rounded to the nearest 0.5

WI1421LR	Calculus I		6	Subject mark	Final grade
	WI1421LR	Calculus I-A	3	decimals	$(3(\text{grade WI1421LR}) + 3(\text{grade WI1402LR- II})) / 6$
	WI1421LR	Calculus I-B	3	decimals	

AE2235	Aerospace Signals, Systems and Control		7	Subject mark	Final grade
	AE2235-I	Aerospace Systems and Control Theory	4	decimals	$(4(\text{grade AE2235- I}) + 3(\text{grade AE2235- II})) / 7$
	AE2235-II	Instrumentation and Signals	3	decimals	

Article A5 - Certified transcript

A transcript containing all results achieved will be provided on request regardless of completion of the full programme.

Article A6 – Transition regulation from 2021-2022

Students from cohort 2020-2021 and before were able to finish the original examination programme from the year they have started. Where needed, students could apply to the bridging programme coordinator for the transition regulations below. In order to be eligible for the regulations, a bridging student must have submitted their request before October 1, 2021. It is not possible to take different courses for the same subject, as this would lead to multiple attempts for the same subject within one academic year.

Analyse 1, 2, and 3

- Resits will be offered for the courses WI1708TH1, WI1708TH2, and WI1708TH3 in 2021-2022.
- Students can apply to the bridging coordinator to have WI1708TH1 (Analyse 1) replaced by WI1421LR-IA S (Calculus I, part A) in their examination programme.
- Students can apply to the bridging coordinator to have WI1708T2 (Analyse 2) replaced by WI1421LR-IB S (Calculus I, part B) in their examination programme.
- Students that have to do both WI1708TH1 (Analyse 1) and WI1708TH2 (Analyse 2) can apply to the bridging coordinator to have this replaced by WI1421LR (Calculus I, part A and B) in their examination programme.
- Students can apply to the bridging coordinator to have WI1708TH3 (Analyse 3) replaced by WI1402LR (Calculus II) in their examination programme.

Linear Algebra:

- 2 additional resits will be offered in 2021-2022 for the old WI1807TH1 Linear Algebra (3 EC) course. If students want, they can also contact the Bridging coordinator to change their examination programme to the new IFEEMCS010400 Linear Algebra (5 EC) course.

Applied Numerical Analysis:

- Bridging students from 2020-2021 or earlier should complete AE2220-I Applied Numerical Analysis to complete their examination programme. If needed, these students can also contact the Bridging coordinator to change their examination programme to:
 - exclude AE2220-I Applied Numerical Analysis and include WI2032TH Numerieke Wiskunde – deeltentamen.
 - This also implies that AE2220-II Computational Modelling will be considered a stand-alone course (i.e. migrated to AE2220-II S) and that *no* compensation with Numerieke Wiskunde and/or Applied Numerical Analysis will be possible.

Article A7 - Admission to the Master programme Aerospace Engineering

After successfully completing the bridging programme the student is eligible for admission to the MSc Aerospace Engineering of TU Delft. Placement into the master tracks is denoted in the TER (Teaching and Examination Regulations) and Implementation Regulations. Further instructions and application procedures can be found on the AE Student Portal.

Article A8 - Composition of the master programme

1. For a programme overview of the MSc and its tracks see <https://studiegids.tudelft.nl/>
2. Depending on the Master Track some additional (bachelor) courses may be required in addition to the bridging programme. These courses have to be followed as part of the elective courses in the master programme and are defined in consultation with the Master Track Coordinator.