

# **REGULATIONS**

## **Bridging Programme AEROSPACE ENGINEERING**

**DELFT UNIVERSITY OF TECHNOLOGY**

**2021-2022**

## TABLE OF CONTENTS

<b>Introduction to Bridging programme .....</b>	<b>3</b>
<b>Bridging Programme.....</b>	<b>4</b>
Article A1 - Admission to the bridging programme.....	4
Article A2 - The study load .....	4
Article A3 - Composition of the Bridging Programme.....	4
Article A4 - Pass/fail regulation courses .....	5
Article A5 - Certified transcript.....	6
Article A6 - Transition regulations.....	6
Article A7 - Admission to the Master programme Aerospace Engineering .....	6
Article A7a - Admission to the Master with the 'Zachte knip' regulation.....	6
Article A8 - Composition of the master programme .....	6

## **Introduction to Bridging programme**

The bridging programme is a preparatory programme for the MSc Aerospace Engineering. The major objectives of the bridging programme Aerospace Engineering are the development of skills in mathematics and mechanics and aerospace engineering to an academic bachelor level and the skills of thinking and working in models. The bridging programme is open to students with a relevant degree from a Dutch university of applied sciences and has to be completed before one can start the MSc.

Below you will find the specific regulations for the bridging programme. For the general regulations the Teaching and Examination Regulations BSc Aerospace Engineering 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:

- Aeronautics/Luchtvaarttechnologie (Hogeschool InHolland)
- Aviation (Hogeschool van Amsterdam)
- Engineering, Design and Innovation (Hogeschool van Amsterdam)
- Mechanical Engineering
- Maritime Engineering
- Civil Engineering
- Automotive Engineering
- Mechatronica

Furthermore, the TU Delft entrance requirements apply:

<https://www.tudelft.nl/en/education/admission-and-application/msc-dutch-diploma/1-check-admission-requirements#c41394>

### Article A2 - The study load

The study load for the Bridging Programme is 51 ECTS<sup>1</sup>.

### Article A3 - Composition of the Bridging Programme

The table below outlines the general structure of the Bridging Programme

Course code	Course name	EC
<b>Mathematics</b>		<b>23</b>
WI1421LR	Calculus I	6
WI1402LR	Calculus II	5 <sup>2</sup>
WI2032TH	Numerieke Wiskunde – deeltentamen	3
IFEEMCS010400	Lineair Algebra 1	5
WI1909TH	Differentiaal vergelijken	3
AE2220-II S	Computational Modelling	3
<b>Engineering</b>		<b>14</b>
AE1205	Programming and Scientific Computing in Python	2
AE2135-I-S	Structural Analysis and Design	5
AE2235 (module)	Aerospace Signals, Systems and Control	7
<b>Aerospace Engineering</b>		<b>12</b>
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

<sup>1</sup> This has been rectified from 49 ECTS to 51 ECTS.

<sup>2</sup> This has been rectified from 3 ECTS to 5 ECTS.

<b>Total</b>		<b>51</b>
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Course descriptions can be found in the digital study guide of the TU Delft:  
[www.studyguide.tudelft.nl](http://www.studyguide.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 earned for all subjects: a mark, a pass (v) or an exemption (vr);
- none of the final marks may be lower than 5.75

*Grading (compensation) regulation modules WI1421LR and AE2235:*

- The mark for a component of a subject will be expressed in decimals.
- A result for a component maybe included in the determination of the final mark only if it is at least 5.0.
- If a module consists of two components or more a final grade is calculated as follows: for each part a minimum of 5.0 is obtained, the rounded off weighted average of the partial grades is 6.0 or higher, the weight is the number of credits, see table below.

WI1421LR	Calculus I		6	whole or half mark	Calculation 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	whole or half mark	Calculation 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**

Students before cohort 2021-2022 are able to finish the original examination programme from the year they have started. Where needed, students can apply to the bridging programme coordinator for the transition regulations below. In order to be eligible for the regulations, a bridging student must submit 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 ECTS) course. If students want, they can also contact the Bridging coordinator to change their examination programme to the new IFEEMCS010400 Linear Algebra (5 ECTS) 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 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. Further instructions and application procedure can be found on the AE Student Portal.

## **Article A7a - Admission to the Master with the 'Zachte knip' regulation**

Students who have a deficit of no more than 15 EC in their bridging programme on 31 August 2021 may enrol in Master's courses and participate in Master's courses examinations in the 2021-2022 academic year. The option to enrol in Master's courses without having completed the bridging programme expires on 31 August 2022. It is not possible to make use twice of this temporary rule.

## **Article A8 - Composition of the master programme**

1. For a programme overview of the MSc and its tracks see [www.studyguide.tudelft.nl](http://www.studyguide.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.