

**Faculty of Aerospace engineering
Delft University of technology**

**Transition regulation BSc programme
per September 2013**

June, 2013

Transition Regulations BSc programme 2013-2014

In order to further improve the BSc programme and to implement the recommendations of the Executive Board concerning "Studiesucces", changes had been made to the BSc programme. Last year modules in the first year were introduced. As of September 2013-2014 modules are introduced in the second and third year as well. Besides the introduction of modules some additional changes have been made to further improve the programme.

The present document outlines the changes and the transition regulations for the second and third year.

1. Changes in the second and third year programme

1.1. *Second year:*

- All second year courses are clustered in modules.
- Courses move to another period.
- Structural Analysis: number of credits changes from 4 to 5 ECTS.
- Experimental Research & Data Analysis: number of credits changes from 2 to 3 ECTS.
- Systems & Control Theory: number of credits changes from 3 to 4 ECTS.
- Production of Aerospace Systems moves to third year.

1.2. *Third year:*

- All third year courses are clustered in modules.
- Business Economics will be discontinued.
- Production of Aerospace Systems moves from second year to third year.

For the complete overview for next year, please find attached the BSc programme for 2013-2014 on page 7.

Note that:

- The new programme does not affect the course content, but courses are combined into modules.
- In 2013-2014 all exams will be offered under new course codes.

2. Modules

In the second and third year larger course units or modules have been introduced. These modules consist of two or three components. The table on page 2 lists the courses/modules and subunits (in italics), the EC, the education period and for modules the calculation of the final grade.

2.1 *Pass/fail regulations*

To pass a module each complete course or module must have a final grade 6.0 or higher.

If a module consist of two components or more a final grade is calculated as follows: For each part a minimum of 5.0 is obtained, the weighted average of the partial grades is 6.0 or higher, the weight is the number of credits. Partial grades are registered to one decimal place. The final grade will be rounded to the nearest half

A student passed a module if the **weighted** average is at least a 5.75. This will be rounded to 6.0.

2.2 *The introduction of modules for current bachelor students*

The new pass/fail regulations will come into effect September 1, 2013. This means that from that date on students who started before the first of September 2013 and have not completed their second or third year yet, can average the grades according to the new programme.

Example:

If a student obtained in 2012-2013 a grade 7 for Differential equations and a grade 5 for Probability and Statistics, (s)he did not pass Probability and Statistics and should do a resit. But from September 2013 on (s)he obtains a final grade $((4*7)+(4*5))/8 = 6$ for Differential Equations and Probability and Statistics (WI2180LR). Thus, (s)he passed WI2180LR without having to do a resit for Probability and Statistics.

Note that:

For partial exams taken before September 2013 the current grades registered in Osiris will be used for calculating the final grade of the module. Therefore if a student obtained a 5.8 for vibrations, the grade 6.0 registered in Osiris will be used.

Second year programme 2013 – 2014

Old programme			New programme		
Code	Course name	EC	Code	Course name	EC
			AE2111	Aerospace System Design	8
AE2100	System Design	5	AE2111-I	System Design	5
AE2101-11	Aerospace Design & Systems Engineering Elements II	3	AE2111-II	Aerospace Design & Systems Engineering Elements II	3
			AE2130	Aerodynamics Sub- and Supersonic	7
AE2102	Aerodynamics I	3	AE2130-I	Aerodynamics I	3
AE2209	Low-Speed Windtunnel Test	1	AE2130-II	Low-Speed Windtunnel Test	1
AE2210	Aerodynamics II	3	AE2130-II	Aerodynamics II	3
			WI2180LR	Diff Eqs & Prob Statistics	8
WI2207LR	Probability and Statistics	4	WI2180-I	Probability and Statistics	4
WI2029LR	Differential Equations	4	WI2180-II	Differential Equations	4
			AE2135	Structural Vibrational Analysis & Design	8
AE2211-11	Structural Analysis and Design	4	AE2135-I	Structural Analysis and Design	5
AE2106-11	Vibrations	3	AE2135-II	Vibrations	3
			AE2222	Test Analysis & Simulation	8
AE2222-I	Test Analysis & Simulation	5	AE2222-I	Test Analysis & Simulation	5
AE2222-II	Experimental Research and Data Analysis	2	AE2222-II	Experimental Research and Data Analysis	3
			AE2230	Flight and Orbital Mechanics & Propulsion	8
AE2104-11	Flight and Orbital Mechanics	4	AE2230-I	Flight and Orbital Mechanics	4
AE2203-11	Propulsion and Power	4	AE2230-II	Propulsion and Power	4
			AE2235	Aerospace Signals, Systems and Control	7
AE2204	Aerospace Systems and Control Theory	3	AE2235-I	Aerospace Systems and Control Theory	4
AE2105	Instrumentation and Signals	3	AE2235-II	Instrumentation and Signals	3
			AE2220	Applied Numerical Analysis & Computational	6
AE2220-I	Applied Numerical Analysis	3	AE2220-I	Applied Numerical Analysis	3
AE2220-II	Computational Modelling	3	AE2220-II	Computational Modelling	3
AE2207	Production of Aerospace Systems	3		Discontinued as 2nd Year course	

Third year programme 2013 - 2014

Old programme			New programme		
Code	Course name	EC	Code	Course name	EC
			AE3211	Aerospace Systems Engineering, Design and Production	6
AE3201	Systems Engineering and Aerospace Design	3	AE3211-I	Systems Engineering and Aerospace Design	3
AE2207	Production of Aerospace Systems (BSc-2)	3	AE3211-II	Production of Aerospace Systems	3
			AE3212	Aerospace Flight Dynamics, Simulation, Verification & Validation incl. Flighttest	9
AE3202-11	Aerospace Flight Dynamics and Simulation Incl Test Flight	5	AE3212-I	Aerospace Flight Dynamics and Simulation Incl Test Flight	5
AE3205-11	Simulation, Verification and Validation	4	AE3212-II	Simulation, Verification and Validation	4
AE3204-11	Introduction business Economics	3		Discontinued	
AE3200	Design synthesis	15	AE3200	Design synthesis	15

3. Effect on credit count in Osiris

3.1 *Student who started in 2009 and afterwards or students who were transferred to the new programme in 2009*

For every student who started in 2008 and afterwards and who did not complete the second and/or third year before September 2013, the study programme in Osiris (SVO) will be changed to the new programme, including all new course codes. The highest grade obtained for an old course, will be transferred to the new course code.

The number of credits obtained in the new SVO can differ from the number of credits obtained in the old SVO: only credits of complete modules are counted. Which means credits for courses with a 5 will only be counted after having successfully compensated the grade with the other course within the module.

Note that:

If a student has already passed AE3204-11 Introduction Business Economics it is possible to graduate with more than 120 credits in the second and third year.

We plan to have the new SVO's in Osiris in January/February 2014.

3.2 *Students who started in 2008 and before*

As the AE BSc programme has changed several times in recent years and other transition rules were introduced to this group of students, the new rules may have a negative effect on this group. Therefore it is decided that the programmes will be examined individually. In this case the most favourable regulation will be used

Note that:

This regulations overrule the previous transition regulations, as well the Transition Report, sent in December 2011.

We plan to have the new SVO's in Osiris in January/February 2014.

4. Planning of resits

If a student wants to complete his/her BSc **before** September 2013 they must have a pass grade (6 or higher) for all courses, including AE3204-11 Introduction Business Economics.

Otherwise, if (s)he obtained a grade 5 for a course, which (s)he can be compensated with a grade for another course because of the introduction of the modules, (s)he may choose to skip the resit and wait for September for the grades to be averaged.

In the second and third week of the Academic Year 2013-2014 various studyplanning sessions will be offered by the Academic Counsellors. In these sessions we will discuss the consequences of the new regulations on your study programme. Please check Blackboard > AE studentportal for the announcements.

5. Admission to the DSE

Entry requirement:

Spring DSE (fourth period) 2014

- First year completed
- At least 50 EC from the second year
- Third year BSc-student or older
- Selection for the Spring DSE takes place on the basis of results up to and including the first examination period.

The transition rules can have a positive and a negative effect on the admission to the DSE. Therefore it is decided that the most favourable regulation will be used.

For example:

A grade 8 for Flight and Orbital Mechanics and a grade 5 for Propulsion and Power will be averaged. So, 8 EC will be counted. If one has a grade 8 for Flight and Orbital Mechanics and a grade 4 for Propulsion and Power the grades will not be averaged. But the credits for Flight and Orbital Mechanics (4 EC) will be counted for admission to AE3200.

Note that:

Selection for the Fall DSE 2013 (second period) takes place on the basis of results up to and including the fourth examination period. This means that no modules will be taken into account for the selection.

6. Administration

These transition regulations have officially been approved by the AE Board of Examiners and will count for all students that have already started and have not finished the AE BSc yet. This regulations overrule the previous transition regulations.

BSc Courses and Modules LESS Scenario IXc

