

# Transition Regulations BSc first year 2012-2013

June 22, 2012

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, especially to the first year. The present document lists the changes and the transition regulations.

## First year programme 2012- 2013

In the first year larger course units or modules are introduced. These modules consist of two or three components. The table below lists the courses/modules and subunits (in italics), the EC, the education period and for modules the calculation of the final grade.

Code	Course	ECTS	Education period	Final result
AE1111	Exploring Aerospace Engineering & Design	5		$(3(\text{gradeAE1111-I})+2(\text{gradeAE1111-II}))/5$
	<i>AE1111-I Exploring Aerospace Engineering</i>	3	2	
	<i>AE1111-II Engineering Drawing</i>	2	1,2	
	<i>AE1111-III Study skills and Guidance</i>	0	1	
AE1110	Introduction to Aerospace Engineering	9		$(5(\text{gradeAE1110-I})+4(\text{gradeAE1110-II}))/9$
	<i>AE1110-I Introduction to Aerospace Engineering I</i>	5	1	
	<i>AE1110-II Introduction to Aerospace Engineering 2</i>	4	2	
AE1130	Engineering Mechanics	7		$(4(\text{gradeAE1130-I})+3(\text{gradeAE1130-II}))/7$
	<i>AE1130-I Statics</i>	4	1	
	<i>AE1130-II Dynamics</i>	3	2	
AE1108	Materials and Structures for Aircraft and Spacecraft	6	2,3	$(3(\text{gradeAE1108-I})+3(\text{gradeAE1108-II}))/6$
	<i>AE1108 I Aerospace Materials</i>	3	2	
	<i>AE1108 II Aerospace Mechanics of Materials</i>	3	3	
AE1222	Aerospace Design and Construction	9		$(5(\text{gradeAE1222-I})+4(\text{gradeAE1222-II}))/9$
	<i>AE1222-I Design and Construction</i>	5	3,4	
	<i>AE1222-II Aerospace Design and Systems Engineering Elements I</i>	4	3,4	
AE1240	Physics	6		$(3(\text{gradeAE1240-I})+3(\text{gradeAE1240-II}))/6$
	<i>AE1240-I Physics I</i>	3	3	
	<i>AE1240-II Physics II</i>	3	4	
AE1205	Programming and Scientific Computing in Python for Aerospace I	2	4	
WI1421LR	Calculus I	6	1,2	$(3(\text{gradeWI1421LR-I})+3(\text{gradeWI1421-II-II}))/6$
	<i>WI1421LR-I Calculus I-I</i>	3	1	
	<i>WI1421LR-II Calculus I-II</i>	3	2	
WI1402LR	Calculus II	5	3	
WI1403LR	Linear Algebra	5	4	

## Pass/fail regulations new first year

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

If a module consists of two components or more a final grade is calculated as follows:

If for each part a minimum of 5.0 is obtained, the final grade is the weighted average of the partial grades, the weight being the number of credits.

Partial grades are registered to one decimal place. The final grade will be rounded to the nearest half.

## Transition regulations

The new programme does not affect the course content, but courses are combined into modules. The table below compares the old and the new programme. Courses/modules in bold are new or changed compared to the 2011-2012 programme.

Old programme			New programme		
Code	Course name	EC	Code	Course name	EC
			<b>AE1100</b>	<b>Exploring Aerospace Engineering &amp; Design</b>	<b>5</b>
AE1100-11	Exploring Aerospace Engineering	3	<i>AE1111-1</i>	<i>Exploring Aerospace Engineering</i>	<i>3</i>
AE1107	Engineering Drawing	2	<i>AE1111-11</i>	<i>Engineering Drawing</i>	<i>2</i>
AE1150-11	Personal & Professional Development	1	<i>AE1111-111</i>	<i>Study Skills &amp; Guidance</i>	<i>0</i>
			<b>AE1110</b>	<b>Introduction to Aerospace Engineering</b>	<b>9</b>
Ae1101-11	Introduction to Aerospace Engineering I	5	<i>AE1110-1</i>	<i>Introduction to Aerospace Engineering I</i>	<i>5</i>
AE1102	Introduction to Aerospace Engineering II	4	<i>AE1110-11</i>	<i>Introduction to Aerospace Engineering II</i>	<i>4</i>
			<b>AE1130</b>	<b>Engineering Mechanics</b>	<b>7</b>
Ae1103	Statics	4	<i>AE1130-1</i>	<i>Statics</i>	<i>4</i>
AE1203	Dynamics	3	<i>AE1130-11</i>	<i>Dynamics</i>	<i>3</i>
			<b>AE1205</b>	<b>Programming &amp; Scientific Computing in Python for AE 1</b>	<b>2</b>
AE1106	Programming 1	2	AE1205	Programming & Scientific Computing in Python for AE 1	2
AE1106 Pythor	Pilot in Programming for Python	2			
			<b>AE1222</b>	<b>Aerospace Design and Construction</b>	<b>9</b>
AE1200	Aerospace Design & Construction	5	<i>AE1222-1</i>	<i>Aerospace Design &amp; Construction</i>	<i>5</i>
AE1201	Aerospace Design & Systems Eng Elements 1	4	<i>AE1222-11</i>	<i>Aerospace Design &amp; Systems Engineering Elements 1</i>	<i>4</i>
			<b>AE1108</b>	<b>Materials and Structures for Aircraft and Spacecraft</b>	<b>6</b>
Ae1202-11	Materials and Structures for Aircraft and Spacecraft	6	<i>AE1108 I</i>	<i>Aerospace Materials</i>	<i>3</i>
			<i>AE1108 II</i>	<i>Aerospace Mechanics of Materials</i>	<i>3</i>
			<b>AE1240</b>	<b>Physics</b>	<b>6</b>
AE1104	Physics 1	2	<i>AE1240-1</i>	<i>Physics 1</i>	<i>3</i>
AE1204	Physics 11	3	<i>AE1240-11</i>	<i>Physics 11</i>	<i>3</i>
			<b>W11421LR</b>	<b>Calculus I</b>	<b>6</b>
W11401LR	Calculus I	6	<i>W11421LR-I</i>	<i>Calculus I-I</i>	<i>3</i>
			<i>W11421LR-II</i>	<i>Calculus I-II</i>	<i>3</i>
			W11402LR	Calculus II	5
W11402LR	Calculus II	5	W11403LR	Linear Algebra	5
W11403LR	Linear Algebra	5			

The new pass/fail regulations come into effect September 1, 2012. This means that from that date on students who started before that date and have not completed their first year yet, can average the grades according to the new programme.

For instance:

If a student obtained in 2011-2012 a grade 9 for Statics and a grade 5 for Dynamics, he did not pass Dynamics and should do a resit. But from September 2012 on he obtains a final grade  $((4*9)+(3*5))/7 = 7$  for Engineering Mechanics (AE1130). Thus, he passed AE1130 without having to do a resit for Dynamics.

In 2012-2013 all exams will be offered under the new course codes. Only if the content of a courses is changed, extra resits for the old course will be offered

### Details per course

#### *AE1100*

Included in AE1111, new course code AE1111-I. No further change.

#### *AE1107*

Included in AE1111, new course code AE1111-II and moved to the first and second period.

#### *AE1150*

Included in AE1111, new course code AE1111-III No credit awarded.

#### *AE1101-11*

Included in AE1110, new course code AE1110-I. No further change.

*AE1102*

Included in AE1110, new course code AE1110-II. No further change.

*AE1103*

Included in AE1130, new course code AE1130-I. No further change.

*AE1203*

Included in AE1130, new course code AE1130-II and moved from the fourth to the second period.

*AE1106*

Replaced by course code AE1205 (Programming in Python). For students who did the Python-pilot in 2011-2012 this is not a new course. The programming course is moved from the second to the fourth period. As a transition regulation two resits will be offered for AE1106 in period 2 and 3.

*AE1200*

Included in AE1222, new course code AE1222-I. No further change.

*AE1201*

Included in AE1222, new course code AE1222-II. No further change.

*AE1202-11*

New course code AE1108, moved from period 3 to period 2 and 3. This course will be broken down in two separate exams. As a transition regulation resits for AE1202 will be offered in period 3 and 4.

*AE1104*

Included in AE1240, new course code AE1240-I, moved from period 1 to period 3. Number of credits changed from 2 to 3. For calculating the final mark for AE1240 Physics I is counted as 3 EC, even when it is obtained before September 2012.

*AE1204*

Included in AE1240, new course code ae1240-II. No further change

*WI1401LR*

New course code WI1421LR. This course will be broken down in two separate exams. As a transition regulation resits for WI1401LR will be offered in period 2 and 3.

*WI1402LR*

The course is moved from period 3 and 4 to period 3. No further change.

*WI1403LR*

The course is moved from period 2 and 3 to period 4. No further change.

**Binding recommendation on continuation of Studies (BSA)**

Students who start their studies in 2012-2013 must obtain a minimum number of 45 credits in order to continue their studies. Only credits for complete modules count towards the standard of 45 EC. Thus, if one component of a subject is passed, but the other component is not, and there is no weighted average of 6.0 or higher, the credits of the component which is passed are not counted for the BSA.

Students who started before September 2012 had to obtain at least 30 EC in order to continue their studies in Aerospace Engineering, whereas the programme consisted of individual courses only.

For students who started their studies in 2011-2012, did not obtain 30 EC but received a postponement of the BSA from the Dean, the following applies:  
They have to obtain 30 "new" credits in 2012-2013, but for them the components of modules will count for the BSA.