

Implementation Regulation for the BSc Programme Nanobiology

Part of the Course and Exam Regulation of the Bachelor Programme
As referred to in Section 2 of the Course and Exam Regulation.

Erasmus Medical Centre Rotterdam
and
Technical University Delft

2013-2014

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Paragraph 1 General

Article 1. Division of the academic year

The academic year of the programme is divided in two semesters. Each semester consist of 2 periods (quarters). Each period consist of two octals.

Article 2. Admission to the programme

The requirements for admission to the BSc programme Nanobiology are described in Section 5 of the Course and Examination Regulation Nanobiology (OER 2013-2014)

Article 3. Final attainments

Final attainments of the BSc programme are describe in Article 1.4 of the Course and Examination Regulation Nanobiology (OER 2013-2014)

Article 4. Minor

The BSc programme Nanobiology is a three year BSc programme of 180EC. The first year (propaedeutic phase) is 60EC, the second and third year (post propaedeutic phase) consist of 120EC.

The possibilities for the minor in the third year will be developed in the academic year 2013-2014; the first students that qualify for this minor will start in September 2014.

Paragraph 2 PROPEDEUTIC PHASE

Article 5. COMPOSITION OF THE STUDY PROGRAMME OF THE PROPEDEUTIC PHASE

1. Propaedeutic phase for students registered in the academic year **2013-2014** consist of the following subjects;

Propaedeutic exam Academic year 2013-2014								
Course	Code	EC	Attainments (see Art 1.4 OER)					
			1	2	3	4	5	6
Analysis 1	WI1411NB	5	X					
Analysis 2	WI1422NB	5	X					
Analysis 3	WI1413NB	3	X					
Linear Algebra (WI1142TN)	WI1142NB12	3	X					
Physics 1	NB1141	6	X	X				
Chemistry (NB1101-D1)	NB1102	3	X	X				
Chemistry (NB1101-D2)	NB1110	3	X	X				
Biomolecular Dynamics (Biochemistry and Molecular Biology)	NB1012	3	X	X				
Biomolecular Dynamics (Biochemistry and Molecular Biology)	NB1016	3	X	X				
Biomolecular Programming	NB1120	3	X	X		X		
Genetics	NB1021	4	X	X	X		X	
Physical Biology of the Cell (Cell Biology)	NB1071	3	X	X				X
Introduction to Nanobiology	NB1031	3	X				X	X
Lab Course 'Nanobiology' (NB1061-D2)	NB1062	3	X			X	X	
Lab Course 'Nanobiology' (NB1061-D1)	NB1066	3	X			X	X	
Biophysics	NB1131	3	X	X		X		
Faculty Seminar	NB1041	1		X	X		X	X
Journal Club	NB1051	3	X	X	X		X	X

Specific grade provisions:

- o The weight average of the final grades for Analysis 1, 2 and 3 must be 5,8 or higher to pass these courses. The weight average can only be determined when grades for the individual final grades of Analysis 1, 2 and 3 is 5 or higher.

2. Propaedeutic phase for students registered in the academic year **2012-2013** consist of the following subjects

Propaedeutic exam Academic year 2012-2013								
Course	Code	EC	Attainments (see Art 1.4 OER)					
			1	2	3	4	5	6
Analysis 1	WI1411NB	5	X					
Analysis 2	WI1412NB	4	X					
Analysis 3	WI1413NB	3	X					
Linear Algebra	WI1142TN	3	X					
Fourier Analysis	WI1414NB	1	X					
Physics 1	NB1141	6	X	X			X	
Chemistry	NB1101-D1	3	X	X				
Chemistry	NB1101-D2	3	X	X				
Biomolecular Dynamics (Biochemistry and Molecular Biology)	NB1011-D1	3	X	X			X	
Biomolecular Dynamics (Biochemistry and Molecular Biology)	NB1011-D2	3	X	X			X	
Biomolecular Dynamics (Biochemistry and Molecular Biology)	NB1011-D3	3	X	X			X	
Genetics	NB1021	4	X	X	X			X
Physical Biology of the Cell (Cell Biology)	NB1071	3	X	X				X
Introduction to Nanobiology	NB1031	3	X					X
Lab Course 'Nanobiology'	NB1061-D1	3	X				X	X
Lab Course 'Nanobiology'	NB1061-D2	3	X				X	X
Biophysics	NB1131	3	X	X			X	
Faculty Seminar	NB1041	2		X	X			X
Journal Club	NB1051	2	X	X	X			X

Specific grade provisions:

- The weight average of the final grades for Analysis 1, 2 and 3 must be 5,8 or higher to pass these courses. The weight average can only be determined when grades for the individual final grades of Analysis 1, 2 and 3 is 5 or higher.

5.3 Schedule for Resits

1st Year

In the propaedeutic phase the resits will be planned during four periods.

6-10 January	10-15 February	2-6 June	11-15 August
Genetics NB1021	Chemistry 2 NB1110	Biomol. Dynamics-1 NB1012	Biomol. Dynamics-2 NB1120
Intro to Nanobiology NB1031		Faculty Seminar NB1041	Biophysics NB1131
Analysis 1 WI1411NB		Physics 1 (octal3-4) NB1141	Phys. Biol. of the Cell NB1071
Chemistry NB1102		Physica 1 (octal 5) NB1141	Labcourse-2 NB1066
		Journal Club NB1051	Linear Algebra WI1142NB12
		Analysis 2 WI1422NB	Analysis 3 WI1413NB
		Labcourse-1 NB1062	Bio.Mol.Programming NB1120

2nd Year

In the 2nd year the resits will be scheduled in the evening hours from 18.00-21.00 hours, in the 10th week after the regular exam.

Paragraph 3: Second and Third Year

Article 6a. COMPOSITION OF THE STUDY PROGRAMME OF THE SECOND YEAR.

The second year of the programme Nanobiology, for students registered in the academic year **2012-2013** consist of the following subjects

Second year Nanobiology; Academic year 2013-2014								
Course	Code	EC	Attainments (see Art 1.4 OER)					
			1	2	3	4	5	6
Differential equations	WI2140TN	3	X					
Instrumentation / LabView	TN2211	6	X			X		
Physical Biology of the Cell	NB2071	3	X	X				X
Physics 2	NB2141	3	X	X				
Signals and Systems	TN2545	6	X					
Philosophy and Ethics	NB2021	2	X		X		X	X
Journal Club	NB2051	1	X	X	X		X	X
Journal Club	NB2151	1	X	X	X		X	X
Evolutionary Developmental Biology Part 1&2	NB2031	6	X	X		X		X
Thermodynamics and Transport	NB2011	3	X					
Optics & Microscopy	NB2041	3	X	X		X		X
Advanced Evolution	NB2111	3	X	X				X
Statistics	WI3104TN	3	X					
Statistical Physics	TN2624NB	3	X					
Computation / Matlab	TN2513	3	X			X		
Image Analysis	NB2121	3	X	X				
Bioinformatics	NB2161	4.5	X	X				X
Nanotechnology	NB2081	2		X	X		X	X
Microscopy practice	Nieuw nummer	1.5	X			X		

Article 6b: Honours Track

For the Bachelor Nanobiology an honours track is not yet available

Paragraph 4: Exams

Article 7: Form of the exam and the assessment strategy

2. The form of the exam and the assessment strategy is described in the digital studyguide: <http://www.studiegids.tudelft.nl/>
3. Attendance requirement is specified in the digital studyguide or on Blackboard at the start of the course.
4. Rules on the composition of the final course grade can be found in the “OER” and the “Rules and Regulations of the Exam Committee”

Article 8: Bachelor thesis project

Bachelor thesis project is part of the third year of the BSc Nanobiology. This will start in the academic year 2014-2015

Article 9: Order of the Exams

This Article describes the order of the exams and the prerequisites to participate in practical work.

1. Attendance requirement is specified in the digital studyguide or on Blackboard at the start of the course.
2. The laboratory practices in the propedeutic phase are mandatory. This includes the introductory lectures and the laboratory work.
3. The practice in Physics 1 in the propedeutic phase is mandatory and can only be followed when the safety training test, prior to the practice, is successfully passed.
4. Guided selfstudy for Analysis 1 mandatory, according to the direction of the responsible teacher
5. Guided selfstudy for Analysis 2 mandatory, according to the directions of the responsible teacher

Paragraph 5 Degree Audit

Article 10. Transition regulations
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Paragraph 6 Introduction provision

Article 11: Entry into force

The implementation regulation is valid for the academic year 2013-2014 starting on september 2nd 2013