

Teaching and Examination Regulations

Bachelor's programme in Biomedical Sciences Faculty of Science

Academic year 2018-2019

B1: Programme specific section - general provisions

B2: Programme specific section – content of programme

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Section B1: Programme specific – general provisions

7. General programme information and characteristics

Article 7.1 Study programme information

1.	The programme B Biomedical Sciences, CROHO number 59324, is offered on a full-time basis.	Advice OLC; approval FGV (7.13 i)
1a	The language of instruction is English in the first year, Dutch in the second year and English in the third year.	Advice OLC; approval FGV (9.38 b)
2.	A unit of study comprises 6 EC or a multiple thereof. The units of study listed below have a different size: AB_BMW_BRAND Fire control for BMED students, 0 EC AB_1228 Study and Career BMED year 1 , 0EC AB_1232 Studie- en loopbaan BMW jaar 2, 0EC	

Article 7.2 Teaching formats used and modes of assessment

1.	The programme uses the teaching formats as specified in the Study Guide.	Advice OLC; approval FGV (7.13 x)
2.	The modes of assessment used per educational component are specified in the Study Guide.	Advice OLC; approval FGV (7.13 l)

Article 7.3 Academic student counselling

1.	The programme offers the following counselling in addition to the student counselling mentioned in Section A: tutors in year 1	Advice OLC; approval FGV (7.13 u)
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8. Further admission requirements

Article 8.1 Additional previous education requirements

1.	Students who do not meet the previous education requirements (VWO-profielen Natuur & Gezondheid plus Natuurkunde / Natuur & Techniek plus Biologie) as stipulated in 'Regulations on Additional Prior Education Requirements for Higher Education' (Ministry of Education Culture and Science) currently in force may still be admitted to the programme by successfully completing the following exams: Physics, Chemistry, Mathematics (A or B), Biology and English at final pre-university examination level.	Exception in WHW: advice OLC
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Article 8.2 Colloquium doctum (entrance examination)

1.	Persons aged 21 years and older who do not meet the requirements for previous education can submit a request to the Executive Board to take an entrance examination (colloquium doctum), as stipulated in Section 7.29 of the WHW. The entrance examination concerns the following subjects at final pre-university examination level: Physics, Chemistry, Mathematics (A or B), Biology and English.	Advice OLC; approval FGV (9.38 b)
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2. The proof that the entrance examination has been passed, only provides entitlement to admission to the intended programme or programmes for the academic year after the examination was taken.	Advice OLC; approval FGV (9.38 b)
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Article 8.3 English language requirement for English-language Bachelor's programmes

1. The proficiency requirement in English as the language of instruction can be met by the successful completion of one of the following examinations or an equivalent, with at least the scores specified: <ul style="list-style-type: none"> - IELTS: 6.5 - TOEFL paper based test: 580 - TOEFL internet based test: 92 - Cambridge Advanced English: A, B or C. 	Landelijke gedragscode Internationale studenten <i>Advice OLC, approval FGV if higher scores</i>
2. Exemption is granted from the examination in English referred to in paragraph 1 to students who, no longer than two years before the start of the programme, have met the requirements of the VU test in English language proficiency TOEFL ITP, with at least the scores specified in paragraph 1, or: <ul style="list-style-type: none"> - had previous education in secondary or tertiary education in an English-speaking country as listed on the VU website; - have an English-language 'international baccalaureate' diploma; - have an English-language diploma of a Bachelor or Master degree programme which has been accredited by the NVAO in the Netherlands. 	Advice OLC; approval FGV

Article 8.4 Other language requirements

1. Language proficiency is taken into account as specified in the Study Guide.	Advice OLC; approval FGV (9.38 b)
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9. Interim examinations and results

Article 9.1 Sequence of interim examinations

1. Students may participate in interim examinations and practical exercise of the components below only if they have passed the interim examination or examinations for the components mentioned hereinafter:	Advice OLC; approval FGV (7.13 h, 7.13 s/t)
Statistics and methodology (AB_1201) after passing Research in Biomedical Sciences (AB_1142).	
Optional course Infectious diseases (AB_471024) after passing Microbiology-Toxicology (AB_1139) and Immunology (AB_1144).	
2 a. The student may participate in the interim examinations of the third year only if he/she has passed the interim examinations of the following examination components:	Advice OLC; approval FGV (7.13 h, 7.13 s/t)
All of the components of the first year and at least 30EC of the second year	
b. The student may participate in the practical exercise (AB_1234 or AB_1235) of the third year only if he/she has passed the interim examinations of the following examination components:	
All of the components of the first year (60EC) and at least 42EC of the second year (of which at least 18EC from the second semester). Furthermore, in order to start this course the students are required to already have found an internship placement which has been approved and completely administered by the BSc Internship Coordinator.	

Article 9.2 Validity period for results

<p>1. a. The validity period of the interim examinations passed and exemptions from interim examinations is as laid down in article 3.8 Ba.</p> <p>b. The validity period of a partial examination (f.e. practicals, work groups and assignments) is limited to two academic years, with the condition that the content of the partial examination has not changed.</p>	Advice OLC; approval FGV (7.13 k)
<p>2. A student may request the Examination Board to extend the validity of an exam. If the exam shows that a student's knowledge is insufficient or outdated, or if the student's skills and insights evaluated in the exam are demonstrably outdated, the Examination Board may impose a supplementary examination, impose a replacement examination or refuse to extend the period of validity.</p>	Legal provision
<p>3. In situations where a limited period of validity applies, the period of validity of examinations may be extended in the event of extenuating circumstances as stipulated in WHW Article 7.51, paragraph 2, with at least the period of allocated financial assistance specified in WHW Article 7.15, paragraph 1.</p>	Legal provision

Article 9.3 Degree

<p>Students who have successfully completed the final examination and met all other requirements stipulated in the WHW will be given the degree of Bachelor of Science, abbreviated to BSc. The degree awarded is stated on the diploma.</p>	Advice OLC; approval FGV (7.13 k)
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Section B2: Programme specific – content of programme

10. Programme objectives, specializations and exit qualifications

Article 10.1 Programme objective

<p>The bachelor programme Biomedical Sciences equips students with a solid scientific background in human biology in health and disease. The programme provides students with fundamental knowledge in diverse aspects of human biology, and trains students to apply this knowledge in practical scientific research, working towards new solutions for timely medical, clinical and societal challenges. Human biology is studied at every level of organization, from molecules and genes to whole organisms to human populations. Furthermore, students are trained in general academic skills, and are motivated to develop a critical, independent and reflective attitude and an open mind towards societal responsibilities in their future positions.</p>	<p>Advice OLC; (7.13 a)</p>
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Article 10.2 Majors (specializations)

<p>The programme has the following majors: None</p>	<p>Advice OLC; (7.13 a)</p>
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Article 10.3 Exit qualifications

<p>At all events, a graduate of the study programme will have:</p>	
<p><i>Kennis en Inzicht</i> <i>De bachelor kan</i></p> <ul style="list-style-type: none"> • <i>zelfstandig multidisciplinaire kennis en inzicht verwerven aangaande voor hem of haar nieuwe biomedische gezondheidsvraagstukken;</i> • <i>de biologische basis van ziekte en gezondheid uitleggen;</i> • <i>de brede methodologische basis van biomedisch onderzoek beschrijven.</i> <p><i>Toepassen van kennis en inzicht</i> <i>De bachelor is in staat om:</i></p> <ul style="list-style-type: none"> • <i>een specifieke biomedische vraagstelling te definiëren, hypothesen op te stellen en verklaringen te formuleren;</i> • <i>op systematische wijze kwalitatief en kwantitatief gegevens te verzamelen en te analyseren;</i> • <i>met behulp van de juiste methoden, technieken en statistische analyses biomedisch onderzoek uit te voeren;</i> • <i>op basis van kennis van regelgeving omtrent wetenschappelijke integriteit te handelen;</i> • <i>op een respectvolle en verantwoordelijke maatschappelijk en ethische wijze op het terrein van wetenschap, werkverhoudingen en samenleving te handelen en te communiceren.</i> <p><i>Oordeelsvorming</i> <i>De bachelor is in staat om:</i></p> <ul style="list-style-type: none"> • <i>vakliteratuur te selecteren, te begrijpen en kritisch te beoordelen;</i> • <i>te beoordelen of biomedische laboratoriumtechnieken of onderzoeksmodellen voor het</i> 	<p>Approval OLC (7.13 c)</p>

<p><i>beantwoorden van een onderzoeksvraag of probleemstelling geschikt en toepasbaar zijn;</i></p> <ul style="list-style-type: none"> • <i>verzamelde biomedische gegevens op waarde te schatten en op toepasbaarheid voor de beantwoording van een onderzoeksvraag of probleemstelling te beoordelen;</i> • <i>een integer oordeel te vormen over biomedische vraagstukken gebaseerd op relevante klinische, wetenschappelijke, ethische en maatschappelijke aspecten;</i> • <i>bij biomedische vraagstukken multidisciplinair te denken en verbindingen te leggen met naastliggende vakgebieden (bijvoorbeeld Geneeskunde en Biologie).</i> <p><i>Communicatie</i></p> <p><i>De bachelor is in staat om:</i></p> <ul style="list-style-type: none"> • <i>mondeling en schriftelijk vakinhoudelijk te communiceren met vakgenoten en niet-vakgenoten;</i> • <i>mondeling en schriftelijk een beargumenteerde mening uit te dragen;</i> <p><i>Leervaardigheden</i></p> <p><i>De bachelor is in staat om:</i></p> <ul style="list-style-type: none"> • <i>kritisch te denken;</i> • <i>te reflecteren op de eigen rol en activiteiten en hier vervolgens naar te handelen;</i> • <i>feedback te geven en ontvangen feedback op waarde te schatten en hiernaar te handelen;</i> • <i>realistische doelen te stellen, te plannen en projectmatig te werken;</i> • <i>op constructieve wijze samen te werken met (bio)medische professionals en studenten;</i> • <i>een bij de mogelijkheden en interesses van de bachelor passende vervolgstudie en loopbaan te kiezen.</i> 	
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11. Curriculum structure

Article 11.1 Academic development

<p>1. Academic development is part of the study programme. This includes:</p> <p>(1) Academic skills/critical reasoning</p> <ul style="list-style-type: none"> • AB_1136 Introduction to Biomedical Sciences • Line Academic Skills • AB_1234 Bachelor Thesis BIOMED- experimental or AB_1235 Bachelor Thesis BIOMED- data analysis <p>(2) Methods & techniques</p> <ul style="list-style-type: none"> • AB_1136 Introduction to Biomedical Sciences • AB_1142 Research in Biomedical Sciences • AB_1201 Statistiek en methodologie <p>(3) Philosophical training/Philosophy of Science/History of Science</p> <ul style="list-style-type: none"> • AB_1136 Introduction to Biomedical Sciences • AB_1217 Philosophy of Science and Ethics 	<p>Ordinance CvB, see appendix 3</p>
<p>2. (4) Academic English</p> <ul style="list-style-type: none"> • Line Academic Skills 	<p>Advice OLC; (7.13 a)</p>

Article 11.2 Major

1. The major comprises a package of compulsory and possibly optional units of study.	Ordinance CvB, see appendix 3
2. In addition, units of study are categorized as introductory (100), in-depth (200) and advanced (300) level.	Ordinance CvB, see appendix 3

Article 11.3 Compulsory educational components of the major

A detailed description per educational component can be found in the Study Guide.

Name of educational component	course code	nr of EC	level	Advice OLC; (7.13 a)
<i>Compulsory courses BMED year 1</i>				
Genetics	AB_1135	6	100	
Introduction to Biomedical Sciences	AB_1136	6	100	
Biochemistry	AB_1137	6	100	
Cell Biology - Histology	AB_1138	6	100	
Microbiology - Toxicology	AB_1139	6	100	
Human Development	AB_1140	6	100	
Evolutionary Developmental Biology	AB_1141	6	100	
Research in Biomedical Sciences	AB_1142	6	100	
Immunology	AB_1144	6	100	
Study and Career BMED year 1	AB_1228	0	100	
Fire control for BMED students	AB_BMW_BRAN D	0	100	
<i>Compulsory courses BMED year 2</i>				
Biomedische wetenschappen en maatschappij	AB_1011	6	200	
Studie- en loopbaan BMW jaar 2	AB_1232	0		
Oncologie (BMW)	AB_1184	6	200	
Humane anatomie en fysio (BMW)	AB_1197	6	200	
Medische biochemie	AB_1198	6	200	
Medische farmacologie	AB_1199	6	200	
Neurowetenschappen	AB_1200	6	200	
Statistiek en methodologie	AB_1201	6	300	
Pathologie	AB_1202	6	200	
Philosophy of Science and Ethics	AB_1217	6	300	

Article 11.4 Elective educational components of the major

Name of educational component	course code	nr of EC	level	Advice OLC; (7.13 a)
<i>Optional courses BMED year 1</i>				
Medical Genomics	AB_1143	6	100	
International Public Health (BMED)	AB_1145	6	100	
Biochemistry - research	AB_1164	6	100	
<i>Optional courses BMED year 2</i>				
Pathofysiologie van hart en circulatie	AB_1015	6	200	
Moleculaire ontwikkelingsbiologie	AB_470038	6	200	
Epidemiologie	AB_470180	6	100	
Wetenschapscommunicatie voor Beta-onderwijs	AB_470185	6	200	

<i>Optional courses BMED year 3</i>				
Human Neurophysiology	AB_1111	6	300	
Systems Biology and Medicine	AB_1204	6	200	
Management van innovaties	AB_470195	6	200	
Infectieziekten	AB_471024	6	200	

Article 11.5 Practical exercise

Name of educational component	course code	nr of EC	level	Approval OLC (7.13 d)
Bachelor Thesis BIOMED- experimental	AB_1234	24	300	
OR				
Bachelor Thesis BIOMED- data analysis*	AB_1235	18	300	

* include an extra optional course from year 2

Article 11.6 Participation in practical exercises and work groups

<ol style="list-style-type: none"> 1. In the case of a practical training, the student must attend 100 % of the practical sessions. Should the student attend less than 100 %, he/she must repeat the practical training (the course coordinator may decide to offer an extra opportunity or compensatory assignment), or the Examination Board may have one or more supplementary assignments issued. 2. In the case of a study group, the student must attend 100 % of the study group. Should the student attend less than 100 %, he/she must repeat the study group (the course coordinator may decide to offer an extra opportunity or compensatory assignment), or the Examination Board may have one or more supplementary assignments issued. 3. In special cases, the examination board, on the request of the student, can decide on exemption for the specific component or issue a supplementary assignment. 	Approval OLC (7.13 d)
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12. Electives

Article 12.1 Elective period

1. The first semester of the third year of the curriculum comprises elective educational components of at least 30EC.	Ordinance CvB, see appendix 3
2. For this elective period, the student can take: <ol style="list-style-type: none"> a. a minor (a coherent package of related courses) b. individual choice of at least 30 EC at the faculty or elsewhere, with the following level requirements: <ol style="list-style-type: none"> I. within the topic of the major: all courses at least level 300 II. outside the topic of the major: at least 12 EC must be at level 300 and a maximum of 6 EC at level 100. 	Ordinance CvB, see appendix 3
3. Prior consent must be obtained from the Examinations Board.	Ordinance CvB, see appendix 3

Article 12.2 Minors

<ol style="list-style-type: none"> 1. The student who meets the admission requirements can take a 'University minor' without prior consent from the Examination Board. The 'University minors' are listed on the VU website. <ol style="list-style-type: none"> a. The following University minors are unavailable (or only available under 	Ordinance CvB, see appendix 3
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<p>specific requirements) for students Biomedical Sciences:</p> <ul style="list-style-type: none"> • Minor Sport, Bewegen en Gezondheid: the compulsory course 'Inleiding Inspanningsfysiologie' ceases to apply due to overlap with the major. Biomedical Sciences students take both courses 'Sportpsychologie' and 'Revalidatie' in the first period instead. • Minor Brain & Mind: unavailable due to overlap with the major 	
<p>b. The student can take one of the following faculty minors without prior consent from the Examination Board:</p> <p><i>Biomedical Sciences:</i> Minor Biomolecular and Neurosciences Minor Topics in Biomedical Sciences</p> <p><i>Faculty of Science:</i> Minor Five Big Issues in Health Minor Biomedical and Health Intervent. Minor Biomedical Topics in Health Care: the compulsory course 'Toxicology and Neurodevelopment' ceases to apply due to overlap with the major. Biomedical Sciences' students can complete the minor by choosing a course that is part of another FALW minor for which they fulfill the requirements for admission. Any other choice for a course in period 3 requires approval of the Examination Board and results in the annotation "Vrije Minor" on your diploma, instead of the annotation "Minor Biomedical Topics in Health Care". Minor Communicatie over Gezondheid Minor Evolutionary Biology and Ecology Minor Global Health</p> <p><i>Faculty SBE:</i> Minor Health Care Management</p> <p><i>Faculty of Behavioural and Movement Sciences:</i> Educatieve minor (Biologie)</p>	Advice OLC; (7.13a)

13. Honours programme

Article 13.1 Faculty Honours components

The faculty's honours programme has its own division of credits between the credits of departmental and interdepartmental courses, and consists of a total of 30 EC:

- Departmental courses: 12-18 EC
- Interdepartmental courses: 12-18 EC

Components can be found via: <https://vu.nl/nl/opleidingen/overig-onderwijs/honours-programme/index.aspx>

14. Binding recommendation on continuation of studies (BSA)

Article 14.1 Binding (negative) recommendation

1. In order to obtain a positive recommendation on continuation of studies, the student must have obtained at least 42 EC by the end of the first year of enrolment.	Advice OLC (7.13 f)
2. Students who receive a binding negative recommendation on continuation of studies cannot enroll for the following Bachelor's programme offered by the Faculty during the subsequent three academic years: BSc Biomedical Sciences	Advice OLC (7.13 f)

15. Evaluation and transitional provisions

Article 15.1 Evaluation of the education

The education provided in this programme is evaluated in accordance with the evaluation plan. The faculty evaluation plan offers the framework.	Approval OLC (7.13 a1)
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Article 15.2 Transitional provisions

<p>By way of departure from the Teaching and Examination Regulations currently in force, the following transitional provisions apply for students who started the programme under a previous set of Teaching and Examination Regulations:</p> <p>1. Verplichte onderdelen</p> <p>a. De volgende verplichte onderdelen werden in 2017-2018 voor het laatst aangeboden:</p> <table border="1"> <thead> <tr> <th>Vervallen cursus (sem 1 2017-2018)</th> <th>Nieuwe cursus (sem 2 2017-2018)</th> </tr> </thead> <tbody> <tr> <td>AB_TAALTOETS Taaltoets Nederlands voor studenten ALW (0 EC)</td> <td>Geen, cursus wordt nog aangeboden binnen de faculteit</td> </tr> </tbody> </table> <p>b. De volgende verplichte onderdelen worden in semester 1 2017-2018 voor het laatst aangeboden en worden vanaf semester 2 2017-2018 vervangen door:</p> <table border="1"> <thead> <tr> <th>Vervallen cursus (sem 1 2017-2018)</th> <th>Nieuwe cursus (sem 2 2017-2018)</th> </tr> </thead> <tbody> <tr> <td>AB_1205 Bachelor Thesis: Part 1 BIOMED (6 EC) én AB_1206 Bachelor Thesis: Part 2 BIOMED-experimental (18 EC)</td> <td>AB_1234 Bachelor Thesis BIOMED-experimental (24 EC)</td> </tr> <tr> <td>AB_1205 Bachelor Thesis: Part 1 BIOMED (6 EC) én AB_1207 Bachelor Thesis: Part 2 BIOMED-data analysis (12 EC)</td> <td>AB_1235 Bachelor Thesis BIOMED- data analysis (18 EC)</td> </tr> </tbody> </table> <p>Vanaf 1 februari 2018 moeten studenten de nieuwe onderdelen volgen, tenzij zij zijn geslaagd voor het voormalige onderdeel.</p> <p>c. De volgende verplichte onderdelen werden in 2015-2016 voor het laatst aangeboden en worden vanaf 2016-2017 vervangen door:</p> <table border="1"> <thead> <tr> <th>Vervallen cursus (2015-2016)</th> <th>Nieuwe cursus (2016-2017)</th> </tr> </thead> <tbody> <tr> <td>AB_1004 Geschiedenis van de levenswetenschappen (3 EC)</td> <td>Geen, cursus wordt nog aangeboden binnen de faculteit</td> </tr> <tr> <td>AB_1007 Wijsbegeerte in de BMW II (3 EC)</td> <td>AB_1217 Philosophy of Science and Ethics (6EC)</td> </tr> </tbody> </table> <p>Vanaf 1 september 2016 moeten studenten de nieuwe onderdelen volgen, tenzij zij zijn geslaagd voor het voormalige onderdeel.</p> <p>d. De volgende verplichte onderdelen werden in 2014-2015 voor het laatst aangeboden en worden vervangen door:</p> <table border="1"> <thead> <tr> <th>Vervallen cursus (2014-2015)</th> <th>Nieuwe cursus</th> </tr> </thead> <tbody> <tr> <td>AB_1148 Mens als systeem I (6 EC)</td> <td>AB_1198 Medische Biochemie (6 EC)</td> </tr> <tr> <td>AB_1149 Mens als systeem II (6 EC)</td> <td>AB_1197 Humane anatomie en fysiologie (6 EC)</td> </tr> <tr> <td>AB_1010 Brein en medicijn (12 EC)</td> <td>AB_1199 Medische farmacologie (6 EC) én</td> </tr> </tbody> </table>	Vervallen cursus (sem 1 2017-2018)	Nieuwe cursus (sem 2 2017-2018)	AB_TAALTOETS Taaltoets Nederlands voor studenten ALW (0 EC)	Geen, cursus wordt nog aangeboden binnen de faculteit	Vervallen cursus (sem 1 2017-2018)	Nieuwe cursus (sem 2 2017-2018)	AB_1205 Bachelor Thesis: Part 1 BIOMED (6 EC) én AB_1206 Bachelor Thesis: Part 2 BIOMED-experimental (18 EC)	AB_1234 Bachelor Thesis BIOMED-experimental (24 EC)	AB_1205 Bachelor Thesis: Part 1 BIOMED (6 EC) én AB_1207 Bachelor Thesis: Part 2 BIOMED-data analysis (12 EC)	AB_1235 Bachelor Thesis BIOMED- data analysis (18 EC)	Vervallen cursus (2015-2016)	Nieuwe cursus (2016-2017)	AB_1004 Geschiedenis van de levenswetenschappen (3 EC)	Geen, cursus wordt nog aangeboden binnen de faculteit	AB_1007 Wijsbegeerte in de BMW II (3 EC)	AB_1217 Philosophy of Science and Ethics (6EC)	Vervallen cursus (2014-2015)	Nieuwe cursus	AB_1148 Mens als systeem I (6 EC)	AB_1198 Medische Biochemie (6 EC)	AB_1149 Mens als systeem II (6 EC)	AB_1197 Humane anatomie en fysiologie (6 EC)	AB_1010 Brein en medicijn (12 EC)	AB_1199 Medische farmacologie (6 EC) én	Advice OLC (7.13 a)
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		AB_1200 Neurowetenschappen (6 EC)	
AB_1012 Ziekteleer: van ontsteking tot kanker (9 EC)		AB_1202 Pathologie (6EC) én AB_1184 Oncologie (6EC)	
AB_1013 Wijsbegeerte in de biomedische wetenschappen I (3 EC)		AB_1217 Philosophy of Science and Ethics (6EC)	
AB_470098 Oriëntatie op studie, loopbaan en maatschappij (1 EC)		Vervangende opdracht	
AB_1014 Onderzoek in de biomedische wetenschappen III (6 EC)		AB_1201 Statistiek en methodologie (6 EC)	
AB_1070 Bachelorstage (23 EC)		AB_1205 Bachelor Thesis: Part 1 BIOMED (6 EC) én AB_1206 Bachelor Thesis: Part 2 BIOMED-experimental (18 EC) óf AB_1205 Bachelor Thesis: Part 1 BIOMED (6 EC) én AB_1207 Bachelor Thesis: Part 2 BIOMED-data analysis (12 EC) óf AB_1234 Bachelor Thesis BIOMED-experimental (24 EC) óf AB_1235 Bachelor Thesis BIOMED- data analysis (18 EC)	
<p>Studenten moeten de nieuwe onderdelen volgen, tenzij zij zijn geslaagd voor het voormalige onderdeel.</p> <p>e. De volgende verplichte onderdelen werden in 2013-2014 voor het laatst aangeboden en worden vervangen door:</p>			
	Vervallen cursus (2013-2014)	Nieuwe cursus	
	AB_1009 Mens als Systeem (12 EC)	AB_1148 Mens als Systeem I (6 EC) óf AB_1198 Medische Biochemie (6 EC) én AB_1149 Mens als Systeem II (6 EC) óf AB_1197 Humane anatomie en fysiologie (6 EC)	
	AB_470216 Genen en Diversiteit (12 EC)	AB_1135 Genetics (6 EC) én AB_1143 Medical Genomics (6 EC, keuze in periode 5)	
	AB_1005 Molecuul tot Mens Theorie (6 EC)	AB_1137 Biochemistry (6 EC) én AB_1138 Cell Biology - Histology(6 EC)	
	AB_1006 Molecuul tot Mens Praktijk (6 EC)	AB_1164 Biochemistry - research (6EC, keuze in periode 5)	

AB_470218 Humane ontwikkeling en evolutie (12 EC)	AB_1140 Human Development (6 EC) én AB_1141 Evolutionary Developmental Biology (6 EC)
AB_470219 Bedreiging en afweer (12 EC)	AB_1144 Immunology (6 EC) én AB_1139 Microbiology - Toxicology (6 EC)
AB_470214 Onderzoek in Biomedische Wetenschappen I (6 EC)	AB_1136 Introduction to Biomedical Sciences (6 EC)
AB_470215 Onderzoek in Biomedische Wetenschappen II (6 EC)	AB_1142 Research in Biomedical Sciences (6 EC)

Studenten moeten de nieuwe onderdelen volgen, tenzij zij zijn geslaagd voor het voormalige onderdeel.

f. De volgende verplichte onderdelen werden in 2012-2013 voor het laatst aangeboden en worden vervangen door:

Vervallen cursus (2012-2013)	Nieuwe cursus
AB_470062 Methodologie en Statistiek II (6 EC)	AB_1014 Onderzoek in de Biomedische Wetenschappen III (6 EC) Óf AB_1201 Statistiek en methodologie (6 EC)

Studenten moeten de nieuwe onderdelen volgen, tenzij zij zijn geslaagd voor het voormalige onderdeel.

g. De volgende verplichte onderdelen werden in 2011-2012 voor het laatst aangeboden en worden vervangen door:

Vervallen cursus (2011-2012)	Nieuwe cursus
470217 Van Molecuul tot Mens (12 EC)	AB_1005 Van Molecuul tot mens (theorie) (6 EC) én AB_1006 Van Molecuul tot Mens (praktijk) (6 EC) óf AB_1137 Biochemistry (6 EC) én AB_1138 Cell Biology - Histology (6 EC)

Studenten moeten de nieuwe onderdelen volgen, tenzij zij zijn geslaagd voor het voormalige onderdeel.

2. Keuzecursussen

De onderstaande cursussen kunnen niet meer gevolgd worden binnen de opleiding Biomedische Wetenschappen, maar studenten mogen de behaalde EC tot zes jaar na het behalen van de cursus gebruiken om de keuzerimte van hun examenprogramma in te vullen:

- AB_470050 Oncologie (6 EC) (eventueel vervangend vak is AB_1184 Oncologie-6EC)
- AB_487024 Humane Neurofysiologie (6 EC) (eventueel vervangend vak is AB_1111 Human Neurophysiology-6EC)

Advice and approval by the Programme Committee, on February 1, 2018.

Approved by the Faculty Joint Assembly, on June 26, 2018

Adopted by the board of the Faculty of Science on June 26, 2018

Appendix I**Overview of articles that must be included in the OER**

Based on Section 7.13, paragraph 2, of the WHW and other Sections of the Act.

Section B1: Programme specific – general provisions

7. General programme information and characteristics	
Article 7.1 Study programme information	7.13 paragraph 2 sub i, r
Article 7.2 Teaching formats used and modes of assessment	7.13 paragraph 2 sub l, x
Article 7.3 Academic student counselling	7.13 paragraph 2 sub u
8. Further admission requirements	
Article 8.1 Additional previous education requirements	7.25, paragraph 4
Article 8.2 Colloquium doctum (entrance examination)	7.29, paragraph 2
9. Interim examinations and results	
Article 9.1 Sequence of interim examinations	7.13 paragraph 2 sub h, s, t
Article 9.2 Validity period for results	7.13 paragraph 2 sub k

Section B2: Programme specific – content of programme

10. Programme objectives, specializations and exit qualifications	
Article 10.1 Programme objective	7.13 paragraph 2 sub a
Article 10.2 Majors (specializations)	7.13 paragraph 2 sub a
Article 10.3 Exit qualifications	7.13 paragraph 2 sub b, c
11. Curriculum structure	
Article 11.1 Academic development	7.13 paragraph 2 sub a
Article 11.2 Major	7.13 paragraph 2 sub a
Article 11.3 Compulsory educational components of the major	7.13 paragraph 2 sub a
Article 11.4 Elective educational components of the major	7.13 paragraph 2 sub a
Article 11.5 Practical exercise	7.13 paragraph 2 sub d
Article 11.6 Participation in practical exercise	7.13 paragraph 2 sub d
12. Electives	
Article 12.1 Elective period	7.13 paragraph 2 sub a
Article 12.2 Minors	7.13 paragraph 2 sub a
13. Honours programme	
Article 13.1 Faculty Honours components	7.13 paragraph 2 sub a
14. Binding recommendation on continuation of studies (BSA)	
Article 14.1 Binding (negative) recommendation	7.13 paragraph 2 sub f
15. Evaluation and transitional provisions	
Article 15.1 Evaluation of the education	7.13 paragraph 2 sub a1
Article 15.2 Transitional provisions	7.13 paragraph 2 sub a

Appendix II (translation to English at a later stage)

Overzicht advies- en instemmingsrechten opleidingscommissie en facultaire gezamenlijke vergadering

Onderwerpen Onderwijs – en Examenregeling (OER) 7.13 lid 2 WHW	FGV		OpIC	
	I	A	I	A
a. de inhoud van de opleiding en van de daaraan verbonden examens				
a1. de wijze waarop het onderwijs in de desbetreffende opleiding wordt geëvalueerd				
b. de inhoud van de afstudeerrichtingen binnen een opleiding				
c. de kwaliteiten op het gebied van kennis, inzicht en vaardigheden die een student zich bij beëindiging van de opleiding moet hebben verworven				
d. waar nodig, de inrichting van praktische oefeningen				
e. de studielast van de opleiding en van elk van de daarvan deel uitmakende onderwijseenheden				
f. de nadere regels, bedoeld in de Articleen 7.8b, zesde lid, en 7.9, vijfde lid (BSA)				
g. ten aanzien van welke masteropleidingen toepassing is gegeven aan Article 7.4a, achtste lid (verhoogde studielast)				
h. het aantal en de volgtijdelijkheid van de tentamens alsmede de momenten waarop deze afgelegd kunnen worden				
i. de voltijdse, deeltijdse of duale inrichting van de opleiding				
j. waar nodig, de volgorde waarin, de tijdvakken waarbinnen en het aantal malen per studiejaar dat de gelegenheid wordt geboden tot het afleggen van de tentamens en examens				
k. waar nodig, de geldigheidsduur van met goed gevolg afgelegde tentamens, behoudens de bevoegdheid van de examencommissie die geldigheidsduur te verlengen				
l. of de tentamens mondeling, schriftelijk of op een andere wijze worden afgelegd, behoudens de bevoegdheid van de examencommissie in bijzondere gevallen anders te bepalen				
m. de wijze waarop studenten met een handicap of chronische ziekte redelijkerwijs in de gelegenheid worden gesteld de tentamens af te leggen				
n. de openbaarheid van mondeling af te nemen tentamens, behoudens de bevoegdheid van de examencommissie in bijzondere gevallen anders te bepalen				
o. de termijn waarbinnen de uitslag van een tentamen bekend wordt gemaakt alsmede of en op welke wijze van deze termijn kan worden afgeweken				
p. de wijze waarop en de termijn gedurende welke degene die een schriftelijk tentamen heeft afgelegd, inzage verkrijgt in zijn beoordeelde werk				
q. de wijze waarop en de termijn gedurende welke kennis genomen kan worden van vragen en opdrachten, gesteld of gegeven in het kader van een schriftelijk afgenomen tentamen en van de normen aan de hand waarvan de beoordeling heeft plaatsgevonden				
r. de gronden waarop de examencommissie voor eerder met goed gevolg afgelegde tentamens of examens in het hoger onderwijs, dan wel voor buiten het hoger onderwijs opgedane kennis of vaardigheden, vrijstelling kan verlenen van het afleggen van een of meer tentamens				
s. waar nodig, dat het met goed gevolg afgelegd hebben van tentamens voorwaarde is voor de toelating tot het afleggen van andere tentamens				
t. waar nodig, de verplichting tot het deelnemen aan praktische oefeningen met het oog op de toelating tot het afleggen van het desbetreffende tentamen, behoudens de bevoegdheid van de examencommissie vrijstelling van die verplichting te verlenen, al dan niet onder oplegging van vervangende eisen				
u. de bewaking van studievoortgang en de individuele studiebegeleiding				
v. indien van toepassing: de wijze waarop de selectie van studenten voor een speciaal traject binnen een opleiding, bedoeld in Article 7.9b, plaatsvindt (excellentietraject binnen een opleiding)				
x. de feitelijke vormgeving van het onderwijs				
alle overige onderwerpen die in de OER zijn geregeld maar die niet als zodanig zijn genoemd in art. 7.13 WHW onder a t/m x.				

De lettering komt overeen met de lettering van Article 7.13 lid 2 WHW

Afkortingen:

FGV:	Facultaire Gezamenlijke Vergadering
OpIC:	Opleidingscommissie
I:	Instemmingsrecht
A:	Adviesrecht

Appendix III

Ordinances VU Executive Board (CvB) and Binding Bachelor's Guidelines (Bachelor Richtlijn)

Deel A, Article:	Concerns:	CvB ordinance / guideline
2.1.1, 2.1.2	Year planning two semesters 8-8-4 (uniforme jaarkalender VU-UvA)	29-9-2008 (period 2009-2015) 22-05-2014 (periode 2016-2025)
2.1.3, 2.1.4	Fixed nr of EC	Bachelor-richtlijn, revised on 6 June 2017
2.2.1	Setup of the programme	Bachelor-richtlijn, revised on 6 June 2017
2.2.2, 2.2.3	Planning academic year (number of contact hours)	Bachelor-richtlijn, revised on 6 June 2017
2.2.4	Internationalization	CvB ordinance, following the advice of the Internationalization Board, in December 2008 and included in the IP
2.3	Language test Dutch (taaltoets)	Original ordinance in Jan 2009, reaffirmed 15-05-2012, included in the IP
3.1	Intekenen voor onderwijs en tentamens	CvB ordinance 30-09-2010, prior consent USR.
3.4.1	Determination and publication of the results (1) Grading deadline exams 10 workdays (2) theses 20 workdays	(1) Bachelor-richtlijn, revised on 6 June 2017 (2) Quality demand 11 from the VU assessment policy, CvB ordinance 15-05-2012
3.5.1	Two possibilities to take examinations	Bachelor-richtlijn, revised on 6 June 2017
3.5.2	Retake Most recent grade is valid. A pass can be retaken	Taken from the UvA guidelines, as part of the harmonization, CvB ordinance 24-02-2014
3.5.4	Extra retake last year	Included in (prior) model OER 16-17 following a request from committee O&O and adopted by CvB op 27-10-2015
3.6	Grades	CvB ordinance 30-09-2010, with University council's consent. As a result of harmonization UvA, the guideline: 5.5 is a pass, has been added. CvB ordinance 24-02-2014.
4.1	Honours programme	Joint CvB ordinance UvA-VU, 28-10-2013
5.2.1	Recommendation on continuation of studies (BSA)	BSA kaderregeling ordinance CvB 18-01-2010, consent USR on OER 2016-2017 Kaderregeling revised on 12-09-2017
5.2.2	Formal warning before February 1st.	BSA kaderregeling ordinance CvB 18-01-2010, consent USR on OER 2016-2017 Kaderregeling revised on 12-09-2017
5.3	Binding (negative) study advice	BSA kaderregeling ordinance CvB 18-01-2010, consent USR on OER 2016-2017 Kaderregeling revised on 12-09-2017
11.1.1	Academische development	Bachelor-richtlijn, revised on 6 June 2017
11.2	Major	Bachelor-richtlijn, revised on 6 June 2017
12.1	Elective period (first semester, 3rd year)	Bachelor-richtlijn, revised on 6 June 2017
12.2.1	Participation in universityminor	CvB ordinance Profileringsruimte 22-11-2010