Teaching and Examination Regulations

Masterprogramme in Drug Discovery & Safety Faculty of Science

Academic year 2018-2019

- B1. programme specific section general provisions
- B2. programme specific section content of programme

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<u>Section B1: Programme specific – general provisions</u>

6. General programme information and characteristics

Article 6.1 Study programme information

1a	The programm	ne Drug Discovery & Safety CROHO number 66989 is offered on a full-	Advice OLC;
	time basis.		approval FGV
			(7.13 i)
1b	For selected st	udents the programme is offered in partnership with the University of	Advice OLC;
	Copenhagen a	nd leads to a joint degree.	approval FGV
			(9.38 b)
1c	The language of	of instruction is English	Advice OLC;
			approval FGV
			(9.38 b)
2.	A unit of study	comprises 6 EC or a multiple thereof. The units listed below have a	
	different size:		
	AM_1180	Clinical Development and Clinical Trials (3 EC)	
	O_MFDIDAC_3	Didactiek 3 (9 EC)	
	O_MLDIDAC_3	Didactiek 3 (9 EC)	
	AM_1179	Epidemiology (3 EC)	
	XM_432517	Ethics and Academic Skills (3 EC)	
	AM_470707	Ethics in Life Sciences (3 EC)	
	O_MFPRAK_2	Praktijk 2 (9 EC)	
	O_MLPRAK_2	Praktijk 2 (9 EC)	
	O_MFPROZ_1	Praktijkonderzoek 1 (3 EC)	
	O_MLPROZ_1	Praktijkonderzoek 1 (3 EC)	
	X_400592	Scientific Writing in English (3 EC)	
	XM_432741	Teaching Assistant (3 EC)	
	X_432625	Tutoring Students (3 EC)	

Article 6.2 Teaching formats used and modes of assessment

1. The degree programme uses the following teaching formats:	Advice OLC;
• Lectures	approval FGV
 Tutorials 	(7.13 x)
Practical work	
2. The degree programme uses the following modes of assessment	t: Advice OLC;
Written examination	approval FGV
• Paper	(7.13 l)
 Assignments 	
 Reports 	

Article 6.3 Academic student counselling

1.	The programme offers the following counselling in addition to the student counselling	Advice OLC;
	mentioned in Section A:	approval FGV
	XM_0002 Research Skills and Career Perspectives	(7.13 u)
	Academic Advisor	



7. Further admission requirements

Article 7.1 Intake date(s)

Lid 1 The programme starts on September 1.

The programme starts twice a year: on September 1 and on February 1.

Advice OLC; approval FGV (9.38 b)

Article 7.2 Admission requirements

- 1.
- A). Applicants will be admitted to the Master's degree programme if they hold a letter of acceptance from the (Admission Committee or) Examination Board, issued by or on behalf of the Faculty Board because the applicant has demonstrated to meet the knowledge, insight and skills requirements of the final level of attainment in an appropriate university Bachelor's degree programme. The criteria concerning knowledge, insight and skills are specified in paragraph 2.
- B). Examples of appropriate university Bachelor's degree programmes:
- a Bachelor's degree in Pharmaceutical Sciences from a Dutch university;
- a Bachelor's degree in Chemistry, provided it meets the prior education requirements, to be assessed by the Examination Board; (any deficiencies will need to be addressed prior to or during the Master's programme);
- a Bachelor's degree in Medical Natural Sciences, provided it meets the prior education requirements, to be assessed by the Examination Board; (any deficiencies will need to be addressed prior to or during the Master's programme);
- a Bachelor's degree from a relevant programme at a university of applied sciences (HBO), provided it meets the prior education requirements, to be assessed by the Examination Board; (any deficiencies will need to be addressed prior to or during the Master's programme);
- a Bachelor's degree in Pharmaceutical Sciences or equivalent from a foreign
 university, provided it meets the prior education requirements, to be assessed by
 the Examination Board; (any deficiencies will need to be addressed prior to or
 during the Master's programme);
- a command of English equivalent to final-examination university entry level (VWO level under the Dutch school system).
- C). Since the Master's degree programme consists of distinct specializations, the Examination Board will assess whether the applicant meets the applicable requirements for a specialization. Admission to one specialization does not automatically imply admission to other specializations. When a candidate wants to switch, a new assessment will be necessary.
- D). Those not yet in possession of a Bachelor's degree, but who meet the admission requirements with regard to knowledge, insight and skills specified in paragraph 2, may on request be granted conditional admission to the associated Master's programme, insofar as failure to grant admission would result in undue unfairness.
- E). The letter of acceptance relates exclusively to the academic year following the academic year in which the application for the letter of acceptance was submitted, unless the Executive Board decides otherwise.
- The Admissions Board will investigate whether the applicant meets the admission requirements.

Partly legal provison & ordinance CvB, see appendix 3.
Admission requirements excepted from participation in WHW

Legal provision



3.	In addition to the requirements referred to in the first paragraph, the Admissions	Partly legal
	Board can also assess requests for admission in terms of (at least two of) the following	provison &
	criteria:	ordinance CvB,
	a. talent and motivation;	see appendix
	b. level of relevant knowledge and understanding;	3.
	c. proficiency in methods and techniques;	Admission
	d. academic attitude and critical thinking;	requirements
	e. proficiency in the language(s) of instruction	excepted from
		participation in
		WHW

Article 7.3 English language requirement for English-language Master's programmes

1.	The proficiency requirement in English as the language of instruction can be met if no	National
	longer than two years before the start of the programme, the applicant has	code of
	successfully completed one of the following examinations with at least the scores	conduct
	indicated:	International
	- IELTS: 6.5	students
	- TOEFL paper based test: 580	
	- TOEFL internet based test: 92	
	- Cambridge Advanced English: A, B or C.	
2.	An exemption from the English language proficiency requirement in paragraph 1 will	
	be granted to those who have passed the final Dutch secondary school examination in	
	English at pre-university level (VWO) and those who, no more than two years prior to	
	commencement of the programme:	
	- met the requirements of the VU test in English language proficiency TOEFL ITP, with	
	at least the scores specified in paragraph 1, or	
	- had previous education in secondary or tertiary education in an English-speaking	
	country as listed on the VU website, or	
	- have an English-language 'international baccalaureate' diploma	

8. Interim examinations and results

Article 8.1 Sequence of interim examinations

Ī	1.	Students may participate in interim examinations [or practical exercises] of the	Advice OLC;
		components below only if they have passed the interim examination or examinations	approval FGV
		for the components mentioned hereinafter:	(7.13 h, s & t)
Ī		A major or minor internship after obtaining 18 EC or more	
Ī		A major or minor internship after passing a course specified by the examination board	

Article 8.2 Validity period for results

The	e validity period of the interim examinations and exemptions from interim examinations	Advice OLC;
bel	ow, is not limited.	approval FGV
		(7.13 k)
1.	A student may request the Examination Board to extend the validity of an exam. If the	Legal
	exam shows that a student's knowledge is insufficient or outdated, or if the student's	provision



	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.	
2.	In situations where a limited period of validity applies, the period of validity of	Legal
	examinations may be extended in the event of extenuating circumstances as stipulated	provision
	in WHW Article 7.51, paragraph 2, with at least the period of allocated financial	
	assistance specified in WHW Article 7.15, paragraph 1.	

Article 8.3 Degree

Degree Students who hav	e successfully completed their Master's final Examination are	Legal
awarded a Master of Scien	nce degree. The degree awarded is stated on the diploma. If it is	provision
a joint degree, this will als	o be stated on the diploma.	



<u>Section B2: Programme specific – content of programme</u>

9. Programme objectives, specializations and exit qualifications

Article 9.1 Workload

1.	The programme has a workload of 120 EC	Advice OLC;
		(7.13 a)

Article 9.2 Specializations

The pro	ogramme has the following variants:	Advice OLC;
•	Research variant (R-variant): Drug Discovery and Target Finding	(7.13 a)
•	Research variant (R-variant): Drug Design and Synthesis	
•	Research variant (R-variant): Drug Disposition and Safety Assessment	
•	Research variant (R-variant): Computational Medicinal Chemistry and Toxicology	
•	Research variant (R-variant): Biomarkers and Clinical Chemical Analysis	
•	Society oriented variant for natural and life sciences (S-variant)	
•	Communication variant (C-variant)	
•	Education variant (E-variant)	

Article 9.3 Programme objective

endent (7.13 a)
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s to
well

Article 9.4 Exit qualifications

1.	The Ma	ster of Science in Drug Discovery & Safety	Approval OLC
	•	has a sound theoretical and practical understanding of the modern	(7.13 c)
		pharmaceutical sciences (including the requisite knowledge of other disciplines)	
	•	has a thorough knowledge of theoretical and experimental methods, as well as	
		research experience in at least one sub-field of pharmaceutical sciences	
	•	is capable, within a reasonable period of time, of becoming conversant in other	
		sub-fields of the discipline	
	•	is capable of formulating a work plan for research within the pharmaceutical	
		sciences, on the basis of a realistic research question	
	•	is capable of analyzing and formulating research results, and of drawing	
		conclusions from them	
	•	is capable of writing a report or an academic paper for publication in an	
		international journal, and of participating in a discussion on a topic related to	
		the field of study in question	
	•	is capable of studying the professional literature (including international	
		publications) in relevant sub-fields, and of making use of the discussions and	
		results found there	
	•	is capable of applying knowledge of the pharmaceutical sciences within a wider,	
		multidisciplinary context	



- is capable of dealing with the safety and environmental aspects of the pharmaceutical sciences
- is capable of taking on posts for which knowledge and research skills in the field of the pharmaceutical sciences are required
- has sufficient knowledge of and insight into the social role of the pharmaceutical sciences to decide on a responsible choice of profession and professional practice
- is capable of cooperating with others, of imparting knowledge to others, and of delivering a lecture both to specialists and to a wider audience

The programme emphasizes:

- the student's personal development;
- · promoting the student's sense of social responsibility;
- promoting the student's communication skills and academic literacy in Dutch or in English.
- 2. Without prejudice to the provisions of paragraph 1, a graduate of the different variants will have the following knowledge and understanding

Approval OLC (7.13 b)

R-variant

The graduate:

- is capable of independently designing, conducting and assessing experiments and the associated controls within a given period of time;
- is capable of contextualizing the results and conclusions obtained, within the framework of results obtained by others;
- is capable of formulating a perspective on the development of scientific research within the field in question;
- is capable of quantitatively and qualitatively analyzing chemical processes, of
 entering the data into existing models (or models yet to be developed), and of
 presenting the results at various levels of abstraction;
- must possess insight into the role of the pharmaceutical sciences in a sustainable society.

C variant

The graduate can:

- independently acquire new knowledge of the subject in the area of communication and can apply this in appropriate professional situations;
- impart any knowledge and insights obtained, verbally and in writing to wider audiences.

E variant

The graduate can:

 independently acquire new knowledge of the subject in the area of education, and can apply this in appropriate professional situations;



• impart any knowledge and insights obtained, verbally and in writing in appropriate educational settings.

S variant

The graduate can:

- develop a perspective on the contributions that scientific knowledge and methods can potentially make to social problems related to the field in question;
- distil a research question from this perspective that is geared towards solutions;
- implement such questions in the form of targeted research;
- interpret and present data obtained from analyses conducted at different scales and different levels of abstraction;
- cooperate with others in the context of a multidisciplinary project team.

10. Curriculum structure

Article 10.1 Composition of the programme

1.	The programme comprises at least a package of compulsory components and an	Ordinance
	individual Master's thesis and academic internship.	CvB,
		see appendix
		3
2.	Additionally the programme can offer:	Advice OLC;
	- Practical exercises	(7.13 a)
	- Minor	
	- Electives	
3.	Educational components are categorized as specialized (400), research oriented (500)	Ordinance
	and highly specialized (600) level.	CvB,
		see appendix
		3

Article 10.2 Compulsory educational components

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

Educational component	course code	nr of	level	Advice OLC;
		EC		(7.13 a)
Communication variant:				
Research methods for analyzing problems	AM_1182	6	400	
Science and Communication	AM_470587	6	500	
Research skills and career perspectives	XM_0002	0	400	
Education variant:				
Peergroup 1	O_MLPEERGR_1	0	400	
Didactiek 1	O_MLDIDAC_1 or	6	400	
	_MFDIDAC_1			
Praktijk 1	O_MLPRAK_1or	6	400	
	O_MFPRAK_1			
Praktijkonderzoek 1	O_MLPROZ_1 or	3	400	





Drug Action	X_432724	6	400
Project Computational Design and Synthesis	X_432734	6	400
of Drugs			
Research skills and career perspectives	XM_0002	0	400
Colloquium & Literature Thesis (Choose 1 of 3 -	- 12 FC required)		
Colloquium & Literature Thesis (Choose 1 of 3 -		12	600
Computational Toxicology	XM_0033	12	800
Colloquium & Literature Thesis Medicinal	XM_0032	12	600
Chemistry			
Colloquium & Literature Thesis Theoretical	XM_0036	12	600
Chemistry			
Research variant DD&S			
	V 425002	1.6	400
Physical-Organic Chemistry	X_435663	6	400
Synthetic Approaches in Medicinal Chemistry	X_435685	6	500
ADMET	X_432721	6	400
Chemical Biology*	X_432538	6	400
Drug Action	X_432724	6	400
Project Computational Design and Synthesis of Drugs	X_432734	6	400
Research skills and career perspectives	XM_0002	0	400
*Chemical Biology is not compulsory for studer	nts following the DD	&S track who will	do the
double degree programme.			
Colloquium & Literature Thesis (Choose 1 of 4 -	- 12 FC required)		
Colloquium & Literature Thesis Medicinal	XM 0032	12	600
Chemistry	XIII0032	12	
Colloquium & Literature Thesis Organic	XM_0034	12	600
Chemistry			
Colloquium & Literature Thesis	XM_0035	12	600
Radiopharmaceutical Chemistry			
Colloquium & Literature Thesis Molecular &	XM_0033	12	600
Computational Toxicology	_		
Research variant BCCA			
Bio-analysis & Clinical Diagnostics	Y 422765	6	400
	X_432765		
ADMET	X_432721	6	400
Chemical Biology	X_432538	6	400
Drug Action	X_432724	6	400
Project Computational Design and Synthesis	X_432734	6	400
of Drugs			
Research skills and career perspectives	XM_0002	0	400
Colloquium & Literature Thesis (Choose 1 of 2 -	- 12 EC reauired)		
Colloquium & Literature Thesis Icinoose 1 of 2	XM 0030	12	600
Chemistry	7.111_0030	12	
Colloquium & Literature Thesis	XM_0031	12	600



Environmental Bioanalysis			
Social variant			
Internship Societal Specialisation	AM_471147	30	600
Analysis of Governmental Policy	AM_470571	6	500
Research methods for analyzing problems	AM_1182	6	400
Communication, Org. and Management	AM_470572	6	500
Research skills and career perspectives	XM_0002	0	400

Article 10.3 Elective educational components

 The student can take one or more of the for Examination Board: 	mowing electives without pri	or consent ifor	ii tile	Advice OLC;
Name of educational component	course code	nr of EC	level	(7.13 a)
Communication variant, Social variant & Educa	 ation variant			
Specialization courses (30 EC required)				
ADMET	X_432721	6	400	
Chemical Biology	X_432538	6	400	
Physical-Organic Chemistry	X_435663	6	400	
Computational-Aided Drug Design and Virtual Screening	X_432673	6	400	
Drug-induced Stress and Cellular Response	X_432536	6	500	
Mass Spectrometry	X_435604	6	400	
Signal Transduction in Health and Disease	X_432535	6	500	
Synthetic Approaches in Medicinal Chemistry	X_435685	6	500	
Drug Action	X_432724	6	400	
Project Computational Design and Synthesis of Drugs	X_432734	6	400	
Biomolecular Simulation in Medicinal Chemistry & Toxicology	X_432664	6	400	
Literature and colloquium DDTF (Compulsory fo	r DDTF C, E or S-variant, cho	ose 1 of 2, 6 EC	required)	
Colloquium & Literature Thesis Medicinal Chemistry (C,E,S)	XM_0018	6	600	
Colloquium & Literature Thesis Organic Chemistry (<i>Structural Chemical Biology thesis</i>) (C,E,S)	XM_0020	6	600	
Literature and colloquium DDSA (Compulsory fo	r DDSA C-, E- or S-variant, 6	EC required)		
Colloquium & Literature Thesis Molecular & Computational Toxicology (C,E,S)	XM_0019	6	600	
Literature and colloquium CMCT (Compulsory fo	 or CMCT C, E or S, choose 1 o	f 3, 6 EC require		
Colloquium & Literature Thesis Molecular & Computational Toxicology (C,E,S)	XM_0019	6	600	
Colloquium & Literature Thesis Medicinal Chemistry (C,E,S)	XM_0018	6	600	
Colloquium & Literature Thesis Theoretical	XM_0022	6	600	



Chemistry (C,E,S)			
Literature and colloquium DD&S (Compulsory f		-	
Colloquium & Literature Thesis Medicinal	XM_0018	6	600
Chemistry (C,E,S)			
Colloquium & Literature Thesis Molecular &	XM_0019	6	600
Computational Toxicology (C,E,S)			
Colloquium & Literature Thesis Organic	XM_0021	6	600
Chemistry (C,E,S)			
Colloquium & Literature Thesis	XM_0022	6	600
Radiopharmaceutical Chemistry (C,E,S)			
13.			
Literature and colloquium BCCA (Compulsory fo		-	
Colloquium & Literature Thesis Bioanalytical	XM_0016	6	600
Chemistry (C,E,S)	1,000,000		1
Colloquium & Literature Thesis	XM_0017	6	600
Environmental Bioanalysis (C,E,S)			
Research project DDTF (Compulsory for DDTF C	- F- or S-variant cha	nose 1 of 2 24 FC requir	red)
Major research project Medicinal Chemistry	XM 0025	24-36	600
(C,E,S)	AIVI_0023	24-30	000
	VM 0027	24.26	600
Major research project Organic Chemistry	XM_0027	24-36	600
(Structural Chemical Biology project) (C,E,S)			
Research project DDSA (Compulsory for DDSA (L C-, E- or S-variant, 24	EC required)	
Major research project Molecular &	XM_0026	24-36	600
Computational Toxicology (C,E,S)	_		
Research project CMCT (Compulsory for CMCT	C-, E- or S-variant, ch	oose 1 of 3, 24 EC requi	ired)
Major research project Molecular &	XM_0026	24-36	600
Computational Toxicology (C,E,S)			
Major research project Medicinal Chemistry	XM_0025	24-36	600
(C,E,S)			
Major research project Theoretical Chemistry	XM_0029	24-36	600
(C,E,S)			
Research project DD&S (Compulsory for DD&S			
Major research project Medicinal Chemistry	XM_0025	24-36	600
(C,E,S)			
Major research project Molecular &	XM_0026	24-36	600
Computational Toxicology (C,E,S)			
Major Research project Organic Chemistry	XM_0027	24-36	600
(C,E,S)			
Major Research project Radiopharmaceutical	XM_0028	24-36	600
Chemistry (C,E,S)			
Research project BCCA (Compulsory for BCCA C	-, E- or S-variant, cho	oose 1 of 4, 24 EC requir	ed)
Major research project Bioanalytical	XM_0023	24-36	600
	ı		1



Chemistry (C,E,S)			
Major research project Environmental	XM_0024	24-36	600
Bioanalysis (C,E,S)			
Internship communication: compulsory for Con	nmunication variant, choc	se one (30 EC req	uired)
Reflective Practice Int. SC. Comm.	AM_1163	30	600
Research Internship Science Comm.	AM_1162	30	600
Recommended choice (Communication variant	·)	1	•
Communication, Org. and Management	AM_470572	6	500
Science in Dialogue	AM_1002	6	500
Science Journalism	AM_471014	6	500
Science Museology	AM_470590	6	500
	_		
Recommended optional courses social variant	(12 EC required)	I	1
Societal entrepreneurship H&L sciences	AM 470575	6	500
Business management	AM_470584	6	500
Policy, Politics and Participation	AM 470589	6	500
Clinical Development and Clinical Trials	AM_1180	3	500
Epidemiology	AM_1179	3	500
Research variant	1		
Ethics and academic skills (6 EC required)			
Ethics and Academic Skills	XM_432517	3	400
Ethics and Academic Skills	XM 437556	6	400
		3	400
Teaching Assistant	XM_432741	6	
Teaching Assistant	XM_432742	6	400
Managing science and technology	AM_470586		600
Research methods for analyzing problems	AM_1182	6	400
Science and Communication	AM_470587	6	500
Societal entrepreneurship H&L sciences	AM_470575	6	500
Business management	AM_470584	6	500
Communication, Org. and Management	AM_470572	6	500
Science in Dialogue	AM_1002	6	500
Science Journalism	AM_471014	6	500
Tutoring Students	X_432625	3	400
Scientific Writing in English	X_400592	3	400
Clinical Development and Clinical Trials	AM_1180	3	500
Epidemiology	AM_1179	3	500
Ethics in life sciences	AM_470707	3	400
Research project DDTF (Compulsory for DDTF,			1
Major Research Project Medicinal Chemistry	XM_0039	42-60	600
Major Research Project Organic Chemistry	XM_0041	42-60	600
(Structural Chemical Biology project)			
Research project DD&SA (Compulsory for DD&	SA, 42 EC required)		
Major Research Project Molecular &	XM_0040	42-60	600



Computational Toxicology			
Research project CMCT (Compulsory for CMCT,)	
Major Research Project Molecular &	XM_0040	42-60	600
Computational Toxicology			
Major Research Project Medicinal Chemistry	XM_0039	42-60	600
Major Research Project Theoretical Chemistry	XM_0043	42-60	600
Research project DD&S (Compulsory for DD&S,	choose 1 of 2, 42 EC required)	
Major Research Project Medicinal Chemistry	XM_0039	42-60	600
Major Research Project Molecular &	XM_0040	42-60	600
Computational Toxicology			
Major Research Project Organic Chemistry	XM_0041	42-60	600
Major Research Project Radiopharmaceutical	XM_0042	42-60	600
Chemistry			
Research project BCCA (Compulsory for BCCA, c	1		
Major Research Project Bioanalytical	XM_0037	42-60	600
Chemistry			
Major Research Project Environmental	XM_0038	42-60	600
Bioanalysis			
D			
Recommended optional courses DDTF (24 EC re			1 400
Supramolecular Chemistry and Nanomat.	XMU_435653	6	400
Computer-Aided Drug Design and Virtual	X_432673	6	400
Screening	V 422526		500
Drug-induced Stress and Cellular Response	X_432536	6	500
Mass Spectrometry	X_435604	6	400
Advanced Computational Chemistry	XMU_0014	6	500
Molecular Computational Chemistry	X_435666	6	400
Protein Analysis	X_435045	6	500
Advanced Course on DDSA	X_435681	6	500
Biomolecular Simulation in Medicinal	X_432664	6	400
Chemistry & Toxicology			
Applied Theoretical Chemistry	XM_432501	12	500
Minor Research Project Bioanalytical	XM_0044	18-36	500
Chemistry			
Minor Research Project Environmental	XM_0045	18-36	500
Bioanalysis			
Minor Research Project Medicinal Chemistry	XM_0046	18-36	500
Minor Research Project Molecular &	XM_0047	18-36	500
Computational Toxicology			
Minor Research Project Organic Chemistry	XM_0048	18-36	500
Minor Research Project Radiopharmaceutical	XM_0049	18-36	500
Chemistry			
Minor Research Project Theoretical Chemistry	XM_0050	18-36	500
Recommended optional courses DDSA (24 EC re	equired)		



Supramolecular Chemistry and Nanomat.	XMU_435653	6	400	\neg
Computer-Aided Drug Design and Virtual	X 432673	6	400	\dashv
Screening	X_432073		400	
Signal Transduction in Health and Disease	X_432535	6	500	-
Advanced Computational Chemistry	XMU_0014	6	500	\dashv
Molecular Computational Chemistry	X_435666	6	400	-
Biomolecular Simulation in Medicinal	X_432664	6	400	-
Chemistry & Toxicology	X_132001		100	
Applied Theoretical Chemistry	XM_432501	12	500	\dashv
Minor Research Project Bioanalytical	XM 0044	18-36	500	-
Chemistry				
Minor Research Project Environmental	XM_0045	18-36	500	-
Bioanalysis				
Minor Research Project Medicinal Chemistry	XM_0046	18-36	500	-
Minor Research Project Molecular &	XM_0047	18-36	500	-
Computational Toxicology	_			
Minor Research Project Organic Chemistry	XM_0048	18-36	500	\exists
Minor Research Project Radiopharmaceutical	XM_0049	18-36	500	\dashv
Chemistry	_			
Minor Research Project Theoretical Chemistry	XM_0050	18-36	500	-
Recommended optional courses CMCT (24 EC re	equired)			
Supramolecular Chemistry and Nanomat.	XMU_435653	6	400	
Drug-induced Stress and Cellular Response	X_432536	6	500	-
Signal Transduction in Health and Disease	X_432535	6	500	
Advanced Computational Chemistry	XMU_0014	6	500	-
Chemical Bonding in Kohn-Sham DFTD	XMU_0013	6	500	1
Molecular Computational Chemistry	X_435666	6	400	
Applied Theoretical Chemistry	XM_432501	12	500	
Density Functional Theory for Chemists	XM_435112	12	500	
Minor Research Project Bioanalytical	XM_0044	18-36	500	
Chemistry				
Minor Research Project Environmental	XM_0045	18-36	500	1
Bioanalysis				
Minor Research Project Medicinal Chemistry	XM_0046	18-36	500	
Minor Research Project Molecular &	XM_0047	18-36	500	
Computational Toxicology				
Minor Research Project Organic Chemistry	XM_0048	18-36	500	\neg
Minor Research Project Radiopharmaceutical	XM_0049	18-36	500	
Chemistry				
Minor Research Project Theoretical Chemistry	XM_0050	18-36	500	
	•	•	1	
Recommended optional courses DD&S (24 EC re	equired)			\neg
Computer-Aided Drug Design and Virtual	X_432673	6	400	1
Screening				
Drug-induced Stress and Cellular Response	X_432536	6	500	1
Signal Transduction in Health and Disease	X_432535	6	500	1
Molecular Computational Chemistry	X_435666	6	400	1
	1	ı		



Diamologular Cimpulation in Mardinia	V 4226C4		100
Biomolecular Simulation in Medicinal	X_432664	6	400
Chemistry & Toxicology	VAA 0011	10.00	500
Minor Research Project Bioanalytical	XM_0044	18-36	500
Chemistry	VNA 0045	40.35	500
Minor Research Project Environmental	XM_0045	18-36	500
Bioanalysis	VAA 0046	40.05	500
Minor Research Project Medicinal Chemistry	XM_0046	18-36	500
Minor Research Project Molecular &	XM_0047	18-36	500
Computational Toxicology	V4.4 00.40	12.22	
Minor Research Project Organic Chemistry	XM_0048	18-36	500
Minor Research Project Radiopharmaceutical	XM_0049	18-36	500
Chemistry	VAA 0050	10.00	500
Minor Research Project Theoretical Chemistry	XM_0050	18-36	500
December ded actional	and and		
Recommended optional courses BCCA (24 EC re		40.26	500
Minor Research Project Bioanalytical	XM_0044	18-36	500
Chemistry	VAA 0045	40.05	500
Minor Research Project Environmental	XM_0045	18-36	500
Bioanalysis	V44 0046	12.22	
Minor Research Project Medicinal Chemistry	XM_0046	18-36	500
Minor Research Project Molecular &	XM_0047	18-36	500
Computational Toxicology	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Minor Research Project Organic Chemistry	XM_0048	18-36	500
Minor Research Project Radiopharmaceutical	XM_0049	18-36	500
Chemistry			
Minor Research Project Theoretical Chemistry	XM_0050	18-36	500
Computer-Aided Drug Design and Virtual	X_432673	6	400
Screening			
Drug-induced Stress and Cellular Response	X_432536	6	500
Signal Transduction in Health and Disease	X_432535	6	500
Molecular Computational Chemistry	X_435666	6	400
Biomolecular Simulation in Medicinal	X_432664	6	400
Chemistry & Toxicology			
High-Throughput Screening	X_435047	6	500
Mass Spectrometry	X_435604	6	400
Protein Analysis	X_435045	6	500
Double degree			
Optional courses (18 EC required)			
Minor Research Project Bioanalytical	XM_0044	18	500
Chemistry			
Minor Research Project Environmental	XM_0045	18	500
Bioanalysis			
Minor Research Project Medicinal Chemistry	XM_0046	18	500
Minor Research Project Molecular &	XM_0047	18	500
Computational Toxicology			
Minor Research Project Organic Chemistry	XM_0048	18	500
Minor Research Project Radiopharmaceutical	XM_0049	18	500



Minor Research Project Theoretical Chemistry Bio-analysis & Clinical Diagnostics Physical-Organic Chemistry Computer-Aided Drug Design and Virtual Bio-analysis & Clinical Diagnostics Physical-Organic Chemistry Computer-Aided Drug Design and Virtual Bioreening Drug-induced Stress and Cellular Response Bignal Transduction in Health and Disease Bynthetic Approaches in Medicinal Chemistry Biomolecular Simulation in MC&T Colloquium & Literature Thesis (choose 1 out of Colloquium & Literature Thesis Bioanalytical Chemistry Colloquium & Literature Thesis Medicinal Chemistry Colloquium & Literature Thesis Molecular & Computational Toxicology Colloquium & Literature Thesis Organic Chemistry Colloquium & Literature Thesis Theoretical	XM_0050 X_432765 X_435663 X_432673 X_432536 X_432535 X_435685 X_435681 X_432664 **T) - 12 EC required XM_0030 XM_0032 XM_0033	18 6 6 6 6 6 6 6 6 6	500 400 400 400 500 500 500 500 400
Computer-Aided Drug Design and Virtual Computer-Aided Drug Design and Virtual Coreening Drug-induced Stress and Cellular Response Drug-induced Stress and Cellular Response Drug-induced Stress and Cellular Response Drug-induced Stress in Medicinal Chemistry Edvanced Course on DDSA Disconsideration in MC&T Colloquium & Literature Thesis (choose 1 out of Colloquium & Literature Thesis Bioanalytical Chemistry Colloquium & Literature Thesis Medicinal Chemistry Colloquium & Literature Thesis Molecular & Computational Toxicology Colloquium & Literature Thesis Organic Chemistry	X_435663 X_432673 X_432536 X_432535 X_435685 X_435681 X_432664 **T) - 12 EC required XM_0030 XM_0032	6 6 6 6 6 6 6	400 400 500 500 500 500 400
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creening Orug-induced Stress and Cellular Response ignal Transduction in Health and Disease synthetic Approaches in Medicinal Chemistry davanced Course on DDSA diomolecular Simulation in MC&T Colloquium & Literature Thesis (choose 1 out of Colloquium & Literature Thesis Bioanalytical Chemistry Colloquium & Literature Thesis Medicinal Chemistry Colloquium & Literature Thesis Molecular & Computational Toxicology Colloquium & Literature Thesis Organic Chemistry Colloquium & Literature Thesis Organic Chemistry Colloquium & Literature Thesis	X_432536 X_432535 X_435685 X_435681 X_432664 F7) – 12 EC required XM_0030 XM_0032	6 6 6 6 6	500 500 500 500 400
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Advanced Course on DDSA Siomolecular Simulation in MC&T Colloquium & Literature Thesis (choose 1 out of Colloquium & Literature Thesis Bioanalytical Chemistry Colloquium & Literature Thesis Medicinal Chemistry Colloquium & Literature Thesis Molecular & Computational Toxicology Colloquium & Literature Thesis Organic Chemistry Colloquium & Literature Thesis Organic Chemistry Colloquium & Literature Thesis Chemistry Colloquium & Literature Thesis Colloquium & Literature Thesis	X_435681 X_432664 F7) – 12 EC required XM_0030 XM_0032	6 6	500 400 600
Colloquium & Literature Thesis (choose 1 out of Colloquium & Literature Thesis Bioanalytical Chemistry Colloquium & Literature Thesis Medicinal Chemistry Colloquium & Literature Thesis Medicinal Chemistry Colloquium & Literature Thesis Molecular & Computational Toxicology Colloquium & Literature Thesis Organic Chemistry Colloquium & Literature Thesis Chemistry Colloquium & Literature Thesis Colloquium & Literature Thesis Colloquium & Literature Thesis	X_432664 F7) – 12 EC required XM_0030 XM_0032	12	600
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Colloquium & Literature Thesis Bioanalytical Chemistry Colloquium & Literature Thesis Medicinal Chemistry Colloquium & Literature Thesis Molecular & Computational Toxicology Colloquium & Literature Thesis Organic Chemistry Colloquium & Literature Thesis Addiopharmaceutical Chemistry	XM_0030 XM_0032		
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Chemistry Colloquium & Literature Thesis Molecular & Computational Toxicology Colloquium & Literature Thesis Organic Chemistry Colloquium & Literature Thesis Colloquium & Literature Thesis Cadiopharmaceutical Chemistry	_	12	600
Colloquium & Literature Thesis Molecular & Computational Toxicology Colloquium & Literature Thesis Organic Chemistry Colloquium & Literature Thesis Colloquium & Literature Thesis Cadiopharmaceutical Chemistry	XM_0033		600
Computational Toxicology Colloquium & Literature Thesis Organic Chemistry Colloquium & Literature Thesis Radiopharmaceutical Chemistry	XM_0033	1	
Colloquium & Literature Thesis Organic Chemistry Colloquium & Literature Thesis Radiopharmaceutical Chemistry		12	600
Chemistry Colloquium & Literature Thesis Radiopharmaceutical Chemistry			
Colloquium & Literature Thesis Radiopharmaceutical Chemistry	XM_0034	12	600
adiopharmaceutical Chemistry			
	XM_0035	12	600
folloguium & Literature Thesis Theoretical			
	XM_0036	12	600
Chemistry			
Colloquium & Literature Thesis	XM_0031	12	600
nvironmental Bioanalysis			
thics and Academic skills (6 EC required)			
thics and Academic Skills	XM_432517	3	400
thics and Academic Skills	XM_437556	6	400
eaching Assistant	XM_432741	3	400
eaching Assistant	XM_432742	6	400
Managing science and technology	AM_470586	6	600
Research methods for analyzing problems	AM_1182	6	400
cience and Communication	AM_470587	6	500
ocietal entrepreneurship H&L sciences	AM_470575	6	500
Business management	AM_470584	6	500
Communication, Org. and Management	AM_470572	6	500
cience in Dialogue	AM_1002	6	500
cience Journalism	AM_471014	6	500
utoring Students	X_432625	3	400
cientific Writing in English	X_400592	3	400
Clinical Development and Clinical Trials	AM_1180	3	500
pidemiology	AM_1179	3	500
thics in life sciences	AM_470707	3	400
Deficiency course			



Principles of Pharmaceutical Sc./ PharCH X_435675 6 400				
2. If the student wishes to take a different educational component than listed, advance permission			Advice	
must be obtained in writing from the Examinations Board.			OLC;	
			(7.13 a)	

Article 10.5 Participation in practical exercise

In the case of a practical training, the student must attend at least 100 % of the pract	tical Approval OLC
sessions. Should the student attend less than 100 %, he/she must repeat the practical	al (7.13 d)
training, or the Examinations Board may have one or more supplementary assignment	nts
issued.	

11. Evaluation and transitional provisions

Article 11.1 Evaluation of the education

ſ	1.	The education provided in this programme is evaluated in accordance with the	Approval
		(attached) evaluation plan. The faculty evaluation plan offers the framework.	OLC (7.13
			a1)

Article 11.2 Transitional provisions

By way of departure from the Teaching and Examination Regulations currently in force, the	Advice OLC
following transitional provisions apply for students who started the programme under a	(7.13 a)
previous set of Teaching and Examination Regulations:	
Not applicable	

Advice and approval by the Programme Committee, on (date) April 25th 2018

Approved by the Faculty Joint Assembly, on (date) June 26^{th} 2018

Adopted by the board of the Faculty of Bèta sciences on June 26th 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 A: Faculty section

2. Study programme structure		
Article 2.1 Structure of academic year and educational components 7.13 paragraph 2 sub e		
3. Assessment and Examination		
Article 3.2 Type of examination	7.13 paragraph 2 sub h, l, j	
Article 3.3 Oral interim examinations	7.13 paragraph 2 sub l, n	
Article 3.4 Determining and announcing results	7.13 paragraph 2 sub o	
Article 3.5 Examination opportunities	7.13 paragraph 2 sub h, j	
Article 3.7 Exemption	7.13 paragraph 2 sub r	
Article 3.8 Validity period for results	7.13 paragraph 2 sub k	
Article 3.9 Right of inspection and post-examination discussion 7.13 paragraph 2 sub		
4. Academic student counselling and study progress		
Article 4.1 Administration of study progress and academic student counselling	7.13 paragraph 2 sub u	
Article 4.2 Adaptations for students with a disability	7.13 paragraph 2 sub m	

Section B1: Programme specific – general provisions

6. General programme information and characteristics			
Article 6.1 Study programme information	7.13 paragraph 2 sub i, r		
Article 6.2 Teaching formats used and modes of assessment	7.13 paragraph 2 sub l, x		
[option:] Article 6.3 Academic student counselling	7.13 paragraph 2 sub u		
7. Further admission requirements			
Article 7.2 Admission requirements	7.30b paragraph 2		
8. Interim examinations and results			
Article 8.1 Sequence of interim examinations	7.13 paragraph 2 sub h, s, t		
[option 1:] Article 8.2 Validity period for results	7.13 paragraph 2 sub k		
[option 2:] Article 8.2 Validity period for results	7.13 paragraph 2 sub k		

Section B2: Programme specific – content of programme

Section B2. Frogramme specime content of programme		
9. Programme objectives, specializations and exit qualifications		
Article 9.1 Workload	7.13 paragraph 2 sub g	
Article 9.2 Specializations	7.13 paragraph 2 sub a	
Article 9.3 Programme objective	7.13 paragraph 2 sub a	
Article 9.4 Exit qualifications	7.13 paragraph 2 sub b, c	
10. Curriculum structure		
Article 10.1 Composition of the programme	7.13 paragraph 2 sub a	
Article 10.2 Compulsory educational components	7.13 paragraph 2 sub a	
[Optional] Article 10.3 Elective educational components	7.13 paragraph 2 sub a	
[Optional] Article 10.4 Practical exercise	7.13 paragraph 2 sub d	
Article 10.5 Participation in practical exercise 7.13 paragraph 2 sub d		
11. Evaluation and transitional provisions		
Article 11.1 Evaluation of the education	7.13 paragraph 2 sub a1	
Article 11.2 Transitional provisions	7.13 paragraph 2 sub a	



Appendix II

Table of right of advice and right of approval by the OLC and FGV (translation to English at a later stage)

Onderwerpen Onderwijs – en Examenregeling (OER) 7.13		FGV		OplC	
paragraph 2 WHW		Α	T	Α	
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 paragraph, en 7.9, vijfde paragraph (BSA)					
g. ten aanzien van welke masteropleidingen toepassing is gegeven aan Article 7.4a, achtste paragraph (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 <u>binnen</u> 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 paragraph 2 WHW



Appendix III

Ordinances VU CvB and Binding Guidelines (richtlijn)

Section 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	Educational components	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
3.1	Compulsory signing up	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) Richtlijn Bachelor en Masteronderwijs, 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 per year	Richtlijn Bachelor en Masteronderwijs, 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.
Section B1, article:	Concerns:	CvB ordinance / guideline
7.2.1	Admission criteria; at least WO Bachelor's degree	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
7.2.3	Additional admission criteria; type of criteria	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
Section B1, article:	Concerns:	CvB ordinance / guideline
10.1	Composition programme	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
10.2	Categorization of components	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017

