

Student ID Number

Degree Program Number

<b>K</b>	<b>066</b>	<b>863</b>	
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## EXAMINATION RASTER

### JOINT MASTER PROGRAM BIOLOGICAL CHEMISTRY

(1.10.2014 - updated 1.10.2021)

- variant T** (degree in 290 / 800 / 840 / BA TC Vienna University of Technology)
- variant C** (degree in BA Chemistry University of Vienna / Graz University of Technology / University of Graz / University of Innsbruck)
- variant M** (degree in 665)
- variant N** (degree in 320 -> Major Field of Studies Chemistry)
- variant F** (degree in BA Applied Chemistry University of Applied Sciences Krems -> Elective Module Organic and pharmaceutical chemistry)

**Data of the Student**

First name and Family name	
Phone number	
E-Mail	

**Chemistry and Technology for Bachelors of technology oriented chemistry programs [4]**

<i>variant T</i>					
Course	Code	Type	ECTS	Date	Grade
Biocatalysis [L]	863CTBCBCAV19	VL	1,5		
Mass Spectrometry [L]	491ANCHMSPV19	VL	1,5		
Interpretation of MS and IR Spectra [L]	491ANCHMSPU19	VL	1,5		
Advanced Organic Chemistry 1 [L]	491ORCHAOCV19	VL	3		
Advanced Instrumental Analysis [L]	491ECANAIAP19	PR	2		
Advanced Biotechnology [L]	491CTOMABTV19	VL	1,5		
			<b>11</b>		

**Chemistry and Technology for Bachelor's of Chemistry [6]**

<i>variant C</i>					
Course	Code	Type	ECTS	Date	Grade
Biocatalysis [L]	863CTBCBCAV19	VL	1,5		
Biochemical Laboratory Techniques [L]	863CTBCBLTV19	VL	1,5		
Advanced Organic Chemistry 1 [L]	491ORCHAOCV19	VL	3		
Advanced Biotechnology [L]	491CTOMABTV19	VL	1,5		
			<b>7,5</b>		

### Chemistry and Technology for Bachelors of Molecular Biosciences [8]

<b>variant M</b>					
Course	Code	Type	ECTS	Date	Grade
Biocatalysis [L]	863CTBCBCAV19	VL	1,5		
Biochemical Laboratory Techniques [L]	863CTBCBLTV19	VL	1,5		
Mass Spectrometry [L]	491ANCHMSPV19	VL	1,5		
Interpretation of MS and IR Spectra [L]	491ANCHMSPU19	UE	1,5		
Advanced Organic Chemistry 1 [L]	491ORCHAOCV19	VL	3		
NMR Spectroscopy [L]	290OPCHNMRV19	VL	1,5		
In-depth fundamentals of Preparative Organic Chemistry for Biological Chemistry [L]	663ORCHIOCK16	KV	1,5		
Organic chemistry laboratory bridge course [L]	863CTMBOCLP19	PR	4		
Organic Chemistry 1 for Biological Chemistry [L]	663ORCHOCHV18	VL	4,5		
Preparative Chemistry Laboratory for Biological Chemists	863CTBCPCLP19	PR	5		
Advanced Biotechnology [L]	491CTOMABTV19	VL	1,5		
Advanced Instrumental Analysis [L]	491ECANAIAP19	PR	2		
<b>29</b>					

### Chemistry and Biotechnology for Bachelors of NawiTec [10]

<b>variant N</b>					
Course	Code	Type	ECTS	Date	Grade
Biocatalysis	863CTBCBCAV19	VL	1,5		
Biochemical Laboratory Techniques	863CTBCBLTV19	VL	1,5		
Preparative Chemistry Laboratory for Biological Chemists	863CTBCPCLP19	PR	5		
Biochemistry	290MAFSBICV18	VL	3		
Advanced Biotechnology	491CTOMABTV19	VL	1,5		
Advanced Instrumental Analysis	491ECANAIAP19	PR	2		
Advanced Organic Chemistry 1	491ORCHAOCV19	VL	3		
<b>17,5</b>					

### Chemistry and Biotechnology for Applied Chemists [10]

<b>variant F</b>					
Course	Code	Type	ECTS	Date	Grade
Biophysics	663MAPHBPHV18	VL	3		
Biophysics Laboratory for Biological Chemistry	663MAPHBPHP18	PR	3		
Biocatalysis	863CTBCBCAV19	VL	1,5		

Biochemical Laboratory Techniques	863CTBCBLTV19	VL	1,5		
Advanced Biotechnology	491CTOMABTV19	VL	1,5		
Advanced Instrumental Analysis	491ECANAIAP19	PR	2		
Advanced Organic Chemistry 1	491ORCHAOCV19	VL	3		
<b>15,5</b>					

### Fundamentals of Biology for non Biological Chemists [10]

<b>variant T / C / N / F</b>					
Course	Code	Type	ECTS	Date	Grade
Biochemistry 2 [B]	1-10-1		4		
Biochemistry Laboratory 2 [B]	1-10-2		5		
Biological Chemistry Project 2 [B]	1-10-3		1		
Methods in Molecular Biology [B]	1-10-4		4		
Molecular Biology and Genetics [B]	1-10-5		3		
Introduction to Bioinformatics [B]	1-10-6		3		
Introduction to Genomics [B]	1-10-7		3		
<b>23</b>					

### Support Courses [15]

<b>variant T / C / M / N / F</b>					
Course	Code	Type	ECTS	Date	Grade
Molecular Biologists fit for Non-Academic Careers <i>or</i> Literature Searching, Publishing and Patents	865PTSKMOBV16	VL	1,5		
Patent Law and Intellectual Property <i>or</i> Safety Engineering	491SOSKPLIV19	VL	3		
<i>or</i>					
Ethics and Gender Studies <i>or</i> Gender Studies Managing Equality TN	GC-BC GS-ME-TN	VL	3		
<b>4,5</b>					

### Biology and Biochemistry [20]

<b>variant T / C / M / N / F</b>					
Course	Code	Type	ECTS	Date	Grade
Applications of Molecular Modelling [B]	1-20-1		2		
Bioenergetics [B]	1-20-2		4		
Computational Chemistry of Biomolecules [B]	1-20-3		4		
Electron Microscopy I [B]	1-20-4		4		
Enzymology [B]	1-20-5		3		
Genetics - the Molecular Approach [B]	1-20-6		3		
Gene and protein engineering [B]	1-20-7		4		
Experimental Methods in Protein Biochemistry [B]	1-20-8		4		

Seminar in Advanced Biological Chemistry I [B]	1-20-9		1		
Seminar in Advanced Biological Chemistry II [B]	1-20-10		1		
<b>30</b>					

### Pool of specific elective courses [25]

<i>variant T / C / M / F</i>					
Course	Code	Type	ECTS	Date	Grade
<b>25</b>					

### Chemical Specialisation [30]

<i>variant T / C / M / N / F</i>					
<i>One of the three chemical specialisations have to be chosen</i>					
Course	Code	Type	ECTS	Date	Grade
<b>8</b>					

### Biological Electives [35]

<i>variant T / C / M / N / F</i>					
<i>25 ECTS have to be chosen from two of the three biological electives, with a minimum of 10 ECTS in each elective</i>					
Course	Code	Type	ECTS	Date	Grade
<b>Biological Elective:</b>					
<b>Advanced Biology and Biochemistry</b>					
Biopharmacy [B]	1-35-1-1		3		
Glycobiology [B]	1-35-1-2		3		
Immunology [B]	1-35-1-3		3		
Methods of Functional Genomics [B]	1-35-1-4		5		
Molecular Immunology [B]	1-35-1-5		3		
Xenobiology and Toxicology [B]	1-35-1-6		5		
<b>35</b>					

Biological Elective: <b>Molecular and Developmental Biology</b>					
Cell Regulation and Signalling [B]	1-35-2-1		4		
Development and Comparative Biochemistry [B]	1-35-2-2		3		
Molecular Phylogenetics [B]	1-35-2-3		6		
Virology [B]	1-35-2-4		3		
Biological Elective: <b>Structural Biology Techniques</b>					
Cell Line Cultures in Vitro [B]	1-35-3-1		3		
Electron Microscopy II [B]	1-35-3-2		4		
Optical Methods in Biochemistry [B]	1-35-3-3		3		
X-Ray Crystallography [B]	1-35-3-4		4		
				<b>25</b>	

**Master's Thesis Seminar Biological Chemistry [40]**

<i>variant T / C / M / N / F</i>					
Course	Code	Type	ECTS	Date	Grade
Master's Thesis Seminar Biological Chemistry [L]	863MAARMASS19	SE	5		
				<b>5</b>	

**Free Electives [45]**

<i>variant T / C / M / N / F</i>					
Course	Code	Type	ECTS	Date	Grade
				<b>15</b>	

<b>Grades at USB</b>		<b>Grades at JKU</b>
excellent 1	—	sehr gut 1
excellent minus 1-	—	sehr gut 1
very good 2	—	gut 2
very good minus 2-	—	befriedigend 3
good 3	—	genügend 4
unsatisfactory 4	—	nicht genügend 5

Linz, \_\_\_\_\_

Student Signature	
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Der\*Die Vizerektor\*in für Lehre und Studierende