

Matrikelnummer / Student ID Number

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Studienkennzahl / Degree program number

UK	066	863	
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## ANSUCHEN UM ZULASSUNG ZUR MASTERPRÜFUNG IM MASTERSTUDIUM BIOLOGICAL CHEMISTRY

APPLICATION FOR ADMISSION TO THE MASTER'S EXAMINATION IN THE MASTER'S PROGRAM IN BIOLOGICAL CHEMISTRY  
(1.10.2024)

Vor- und Familienname / First and Family name	
Telefonnummer / Phone number	
E-Mail	

### Prüfungssenat der Masterprüfung / Members of the examination senate

Vorsitzende*r und 1. Prüfer*in / Chair of the Examination Senate and 1. Examiner	Name in Blockbuchstaben / Name	Unterschrift / Signature
	Präsentation und Verteidigung der Masterarbeit / Presentation and Defense of the Master's Thesis	
2. Prüfer*in / 2. Examiner	Name in Blockbuchstaben / Name	Unterschrift / Signature
Fach / Subject	Biology and Biochemistry	
3. Prüfer*in / 3. Examiner	Name in Blockbuchstaben / Name	Unterschrift / Signature
Studienfach nach Wahl gemäß Curriculum / Subject of choice according to curriculum		
4. Prüfer*in / 4. Examiner	Name in Blockbuchstaben / Name	Unterschrift / Signature
Studienfach nach Wahl gemäß Curriculum / Subject of choice according to curriculum		

Unterschrift Befürwortung Studienpräses / Endorsement by Study President	
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Termin / Date	Uhrzeit / Time	Prüfungsort / Place of Examination
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Linz, am / on \_\_\_\_\_

Unterschrift Antragsteller*in / Student signature	
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**genehmigt / nicht genehmigt**

LINZ, am / on \_\_\_\_\_

Unterschrift Vizerektor*in für Lehre und Studierende	
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- 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)

**Chemistry and Technology for Bachelors of technology oriented chemistry programs - variant T**

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>Total Grade</b>	<b>2</b>		<b>11</b>		

**Chemistry and Technology for Bachelor's of Chemistry - variant C**

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>Total Grade</b>	<b>3</b>		<b>7,5</b>		

**Chemistry and Technology for Bachelors of Molecular Biosciences - variant M**

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>Total Grade</b>	<b>4</b>		<b>29</b>		

#### Chemistry and Biotechnology for Bachelors of NawiTec - variant N

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>Total Grade</b>	<b>5</b>		<b>17,5</b>		

#### Chemistry and Biotechnology for Applied Chemistry - variant F

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>Total Grade</b>	<b>6</b>		<b>15,5</b>		

#### Fundamentals of Biology for non Biological Chemists - variant T / C / N / F

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

**Support Courses - variant T / C / M / N / F**

Course	Code	Type	ECTS	Date	Grade
Molecular Biologists fit for Non-Academic Careers <i>or</i> Literature Searching, Publishing and Patents	865AMBSMBNV24 290GESKLPPV18	VL	1,5		
Patent Law and Intellectual Property <i>or</i> Safety Engineering	491SOSKPLIV19 491CTIMSAEV19	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>Total Grade</b>	<b>15</b>		<b>4,5</b>		

**Biology and Biochemistry - variant T / C / M / N / F**

Course	Code	Type	ECTS	Date	Grade
Applications of Molecular Modelling [B]	20-1		2		
Energy Metabolism [B]	20-2		4		
Computational Chemistry and Modelling of Biomolecules [B]	20-3		4		
Electron Microscopy I [B]	20-4		4		
Cellular and Molecular Biology 2 [B]	20-10		5		
Gene and protein engineering [B]	20-7		4		
Experimental Methods in Protein Biochemistry [B]	20-8		4		
<b>Total Grade</b>	<b>20</b>		<b>27</b>		

**Pool of specific elective courses - variant T / C / M / F**

Course	Code	Type	ECTS	Date	Grade
T Total Grade			6,5		
C Total Grade			10		
M Total Grade			11,5		
F Total Grade	<b>25</b>		2		

**Chemical Specialisation - variant T / C / M / N / F**

One of the three chemical specialisations (taught at JKU) have to be chosen					
Course	Code	Type	ECTS	Date	Grade

<b>Total Grade</b>	<b>30</b>		<b>8</b>		

**Biological Electives - variant T / C / M / N / F**

25 ECTS have to be chosen from two of the three biological electives, with a least 10 ECTS and 4 courses in each elective

Course	Code	Type	ECTS	Date	Grade
<b>Biological Elective: Advances in Biological Systems</b>					
Bioinorganic Chemistry & Biophysics of Plants 1 [B]	35-1-1		3		
Immunology [B]	35-1-3		3		
Methods of Functional Genomics [B]	35-1-4		5		
Molecular Immunology [B]	35-1-5		3		
Xenobiochemistry and Toxicology [B]	35-1-6		5		
Genetics - the Molecular Approach [B]	35-1-7		3		
The 'unknown unknowns' of arthropod-microbes interaction	35-1-8		2		
<b>Biological Elective: Molecular and Developmental Biology</b>					
Epigenetics and regulations of gene expression [B]	35-2-1		4		
Genetics - the Molecular Approach [B]	35-2-6		3		
Molecular Phylogenetics [B]	35-2-3		6		
Virology [B]	35-2-4		3		
Molecular Ecology [B]	35-2-5		6		
Plant Biochemistry [B]	35-2-7		6		
Animal Physiology [B]	35-2-8		6		
<b>Biological Elective: Structural Biology Techniques Module</b>					
Cell Line Cultures in Vitro [B]	35-3-1		3		
Electron Microscopy II [B]	35-3-2		4		
Optical Methods in Biochemistry [B]	35-3-3		3		
X-Ray Crystallography [B]	35-3-4		4		
Glycobiology [B]	35-3-6		3		
Principles of anticancer and antiviral drug development I [B]	35-3-5		3		
Structural Biochemistry [B]	35-3-7		4		
<b>Total Grade</b>	<b>35</b>		<b>25</b>		

