

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)

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

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

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

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

<b>Unterschrift Antragsteller*in /</b> Student signature	
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**genehmigt / nicht genehmigt**

Linz, am / on \_\_\_\_\_

<b>Unterschrift Vizerektor*in für</b> Lehre und Studierende	
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**Chemistry and Technology for Bachelors of Biological Chemistry**

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		
Preparative Chemistry Laboratory for Biological Chemists [L]	863CTBCPCLP19	PR	5		
Advanced Biotechnology [L]	491CTOMABTV19	VL	1,5		
Advanced Instrumental Analysis [L]	491ECANAIAP19	PR	2		
<b>Total Grade</b>	<b>1</b>		<b>17,5</b>		

**Support Courses**

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 KV	3		
<b>Total Grade</b>	<b>15</b>		<b>4,5</b>		

**Biology and Biochemistry**

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**

Course	Code	Type	ECTS	Date	Grade
<b>Total Grade</b>	<b>25</b>		<b>15</b>		

**Chemical Specialisation**

*Two of the three chemical specialisations have to be chosen.*

Course	Code	Type	ECTS	Date	Grade
<b>Chemical Specialisation: Advanced Chemistry</b>					
<b>Total Grade</b>	<b>30-1</b>		<b>8</b>		
<b>Chemical Specialisation: Advanced Physical Chemistry and Biophysics</b>					
<b>Total Grade</b>	<b>30-2</b>		<b>8</b>		
<b>Chemical Specialisation: Biomolecular Spectroscopy and Structure</b>					
<b>Total Grade</b>	<b>30-3</b>		<b>8</b>		

## Biological Electives

25 ECTS have to be chosen from two of the three biological electives, with a minimum of 10 ECTS in each elective and 4 courses in each					
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 interactions [B]	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</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>		

**Master's Thesis Seminar Biological Chemistry**

Course	Code	Type	ECTS	Date	Grade
Master Thesis Seminar A [L]	863MAARMAAS24	SE	2		
Master Thesis Seminar B [L]	863MAARMABS24	SE	3		
<b>Total Grade</b>	<b>40</b>		<b>5</b>		

**Free Electives**

Course	Code	Type	ECTS	Date	Grade
<b>Total Grade</b>	<b>45</b>		<b>18</b>		

**Grades at USB**

excellent 1  
excellent minus 1-  
very good 2  
very good minus 2-  
good 3  
unsatisfactory 4

**Grades at JKU**

sehr gut 1  
sehr gut 1  
gut 2  
befriedigend 3  
genügend 4  
nicht genügend 5

The Vice-Rector for Academic Affairs