



Universität Potsdam

# BIOCHEMISTRY AND MOLECULAR BIOLOGY

Master of Science

# EXAMINATION BOARD



Master Biochemistry and  
Molecular Biology

## **Chairperson**

- Prof. Dr. Salvatore Chiantia

## **Professors**

- Prof. Dr. Salim Seyfried (deputy chair)
- Prof. Dr. Isabel Bäurle

## **Academic Staff**

- Dr. Anja Thalhammer
- Eric Mark

## **Students**

- Emma Becker

# PROGRAM CONTENT



Master Biochemistry and  
Molecular Biology

Master program combines exciting basic research in the following core areas:

- **Biomedicine**
- **Molecular plant sciences**
- **Evolutionary systems biology**
- **Macromolecular systems**

These topics will be addressed with a range of methods including:

- **Genomics**
- **Genetics**
- **Systematic bioanalytical tools and protein analysis**
- **High-end microscopy**

## THE PROGRAM AT A GLANCE

<b>Name</b>	Biochemistry and Molecular Biology
<b>Degree</b>	Master of Science
<b>Standard period of study</b>	4 semesters
<b>Credit points</b>	120
<b>Language of instruction</b>	English
<b>Start of study (1st semester)</b>	Winter semester or summer semester
<b>Campus</b>	Golm

<https://www.uni-potsdam.de/en/bam/index>

[Study and Examination Regulations for Master Program in Biochemistry and Molecular Biology](#)

# WHERE TO START



Master Biochemistry and  
Molecular Biology

## Check requirements to obtain MSc (120 LP)

- Program Structure
- Study Plan
- Module Manual

## Platform for planning and organizing your studies > PULS

- Find interesting courses (course overview)
- Take particular care of under which “umbrella” elective module you register for the courses
- Take courses and enjoy learning 😊

# PROGRAM STRUCTURE



Master Biochemistry and  
Molecular Biology

## Compulsory module / Pflichtmodule (12 CP):

- State of the Art Biochemistry / Molecular Biology > offered only in winter term
- Practical bioinformatics > offered only in summer term

## Intensive modules / Richtungsmodule (33 CP)

- 3 Specialization modules worth 11 CP each

## Elective modules / Wahlpflichtmodule (40 CP)

- worth of A (8 CP) and B (6 CP) modules : 5x 8 CP OR 2x 8 CP + 4x 6 CP

## Advanced research practical (5 CP)

- 4 weeks in preparation for the Master thesis

## Master thesis (30 CP)

- 6 month in a related research field

Lecture  
+  
Seminar

6-weeks practical

A: 2-weeks practical

B: NO practical

# STUDY PLAN



Starting in Summer term			
	Modules	CPs	Workload
1.	Compulsory Core Module 2	6	4 SWS lecture + exercise > 2x1.5 h per week  ❖ 3 x lecture + seminar , 6 weeks practical courses ➤ 2x lecture + seminar , 8 weeks practical courses
	Intensive module 1x	11	
	❖ Elective modules 2xB	12	
	➤ Elective modules 1xA	8	
❖ 29 CP			
➤ 25 CP			
2.	Compulsory Core Module 1	6	Lecture series > 3x1.5 h per week  ❖ 3 x lecture + seminar , 8 weeks practical courses ➤ 3x lecture + seminar , 10 weeks practical courses
	Intensive module 1x	11	
	❖ Elective modules 1xA + 1xB	14	
	➤ Elective modules 2xA	16	
❖ 31 CP			
➤ 33 CP			
3.	Intensive module 1x	11	❖ 3x lecture + seminar , 8 weeks practical courses ➤ 3x lecture + seminar , 10 weeks practical courses 4 weeks lab training (not graded)
	❖ Elective modules 1xA+1xB	14	
	➤ Elective modules 2xA	16	
	Advanced Research Practical	5	
❖ 30 CP			
➤ 32 CP			
4.	Master Thesis	30	6 month


**Elective modules 40 CP:** ❖ Option = 4x 6CP (B) + 2x 8CP (A) ; ➤ Option = 5x 8CP (A)

# MODULE MANUAL




Master Biochemistry and  
Molecular Biology

<https://puls.uni-potsdam.de/qisserver/rds?state=verpublish&publishContainer=vvzpdfindexstgdoc&stgkz=BAM>

Universität Potsdam Courses Module Description Summer 2024 ? DE  Login

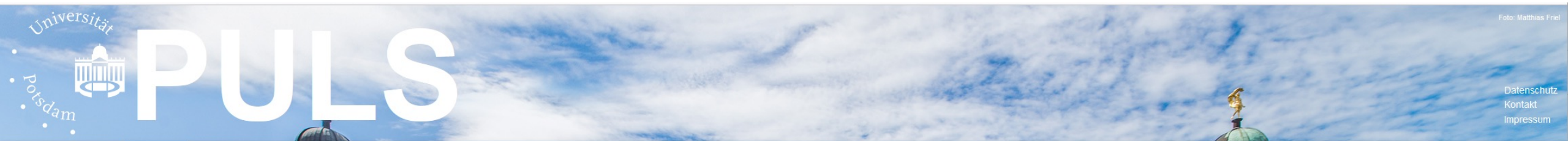
Auflistung der Module

Hilfetext  
► Hier klicken um den Hilfetext anzuzeigen

Funktionen:  PDF-Sortierung

Master of Science - Biochemistry and Molecular Biology - WiSe 2016/17	
BIO-B-KM1 - <b>State of the Art in Biochemistry and Molecular Biology</b> (6 LP, Pflichtmodul) -> <a href="#">Zum Modul</a>	► <i>State of the Art in Biochemistry and Molecular Biology</i>
BIO-B-KM2 - <b>Practical Bioinformatics</b> (6 LP, Pflichtmodul) -> <a href="#">Zum Modul</a>	► <i>Practical Bioinformatics</i>
BIO-B-RM1 - <b>Nanobiotechnology</b> (11 LP, Wahlpflichtmodul) -> <a href="#">Zum Modul</a>	► <i>Nanobiotechnology</i>
BIO-B-RM10 - <b>Modern Methods in Light Microscopy</b> (11 LP, Wahlpflichtmodul) -> <a href="#">Zum Modul</a>	► <i>Modern Methods in Light Microscopy</i>
BIO-B-RM11 - <b>Physiology of Microorganisms</b> (11 LP, Wahlpflichtmodul) -> <a href="#">Zum Modul</a>	► <i>Physiology of Microorganisms</i>
BIO-B-RM12 - <b>Current Aspects and Methods of Plant Cell Biology</b> (11 LP, Wahlpflichtmodul) -> <a href="#">Zum Modul</a>	► <i>Current Aspects and Methods of Plant Cell Biology</i>

Online platform for planning and organizing your studies <https://www.uni-potsdam.de/en/studium/studying/puls>



- Course catalog
- Course catalog (PDF)
- Finding a course
- Today's courses
- Today's cancelled courses
- Hide menu

You are here: [Home](#) → [Courses](#) → [Course catalog](#)

## Course catalog (SoSe 2024)

View: [short](#) [medium](#) [long](#)

- ① Vorlesungsverzeichnis
  - ① Faculty of Sciences
    - ① Institut für Biochemie und Biologie
      - ① Master of Science
        - ① Biochemistry and Molecular Biology (Examination regulation of the winter semester 2016/17)
          - ① Compulsory Modules
          - ① Specialization Module
          - ① Intensive Modules
          - ① Elective Modules
          - ① Optional course

**IMPORTANT!! Pay attention under which kind of module you register for a course**

**Registration, enrollment, and withdrawal period for courses: April 2, 2024 – May 10, 2024 (except April 4)**






- Course catalog
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- Hide menu

You are here: [Home](#) → [Courses](#) → [Course catalog](#)




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- ① [Vorlesungsverzeichnis](#)
  - ① [Faculty of Sciences](#)
    - ① [Institut für Biochemie und Biologie](#)
  - ① [Master of Science](#)
    - ① [Biochemistry and Molecular Biology \(Examination regulation of the winter semester 2016/17\)](#)
      - ① [Elective Modules](#)
        - ① [BIO-B-WM1 - Biochemistry A](#)

Veranstaltungsart	Titel der Veranstaltung
 Vorlesung/Seminar	<a href="#">Metalloproteine</a>
 Blockveranstaltung	<a href="#">Modern aspects of biochemistry and analytics of carbohydrates</a>
 Blockveranstaltung	<a href="#">Theoretische und Praktische Einführung in die Massenspektrometrie</a>

- ① [Biochemistry and Molecular Biology \(Examination regulation of the winter semester 2016/17\)](#)
  - ① [Elective Modules](#)
    - ① [BIO-B-WM7 - Biochemistry B](#)

Veranstaltungsart	Titel der Veranstaltung	
 Vorlesung/Seminar	<a href="#">Analytische Biochemie</a>	<a href="#">apply / withdraw application</a>
 Vorlesung/Übung	<a href="#">Biophysik der Zelle</a>	<a href="#">apply / withdraw application</a>
 Vorlesung/Seminar	<a href="#">Metalloproteine</a>	<a href="#">apply / withdraw application</a>

**IMPORTANT!! Pay attention under which kind of module you register for a course**

**Registration, enrollment, and withdrawal period for courses: April 2, 2024 – May 10, 2024 (except April 4)**

# SPECIAL MODULES



Master Biochemistry and  
Molecular Biology

## FAQs Study: Modules BIO-B-WM13 BIO-B-WM14 BIO-B-WM15 BIO-B-WM16 BIO-B-WM17 BIO-B-RM22

BIO-B-WM13 - Current Research in Biochemistry and Molecular Biology in Local Research Institutes and Biotechnology Companies B (6 LP, Wahlpflichtmodul) -> [Zum Modul](#)  
▶ *Current Research in Biochemistry and Molecular Biology in Local Research Institutes and Biotechnology Companies B*

View: [short](#) [medium](#) [long](#)

① Vorlesungsverzeichnis

• ① Faculty of Sciences

• ① Institut für Biochemie und Biologie

• ① Master of Science

• ① Biochemistry and Molecular Biology (Examination regulation of the winter semester 2016/17)

• ① Elective Modules

• ① BIO-B-WM13 - Current Research in Biochemistry and Molecular Biology in Local Research Institutes and Biotechnology Companies B

Veranstaltungsart	Titel der Veranstaltung	
✘  Vorlesung	<a href="#">Current Research in Biochemistry and Molecular Biology in Local Research Institutes and Biotechnology Companies B Lecture</a>	Registration is currently unavailable
✘  Seminar	<a href="#">Current Research in Biochemistry and Molecular Biology in Local Research Institutes and Biotechnology Companies B Seminar</a>	Registration is currently unavailable
Blockveranstaltung	<a href="#">Modern aspects of biochemistry and analytics of carbohydrates</a>	Registration is currently unavailable

➤ Possibility of accrediting courses outside the BAM program

✘ DO NOT simply register for these courses ..... Read the FAQ **BEFORE** registration

# MOODLE UP



Master Biochemistry and  
Molecular Biology

E-Learning-Plattform University of Potsdam <https://moodle2.uni-potsdam.de/>



Moodle.UP



Login

ANKÜNDIGUNGEN

Aktuelle Informationen, Tipps & Materialien zur Online-Lehre finden Sie hier.



Willkommen auf der zentralen E-Learning-Plattform **Moodle.UP** der Universität Potsdam.

## Hilfe & Infos

Hilfe und Informationen für Nutzer finden Sie u.a. im **Hilfeforum**, auf der **Moodle.UP-Supportseite für die Online-Lehre** oder in der **offiziellen Moodle-Dokumentation**.

Die Verhaltensregeln finden Sie im **Code of Conduct**.

## Infos für Lehrende

Um einen **neuen Kurs zu beantragen** nutzen Sie bitte folgendes **Kursantragsformular**.

Zum **Hinzufügen von weiteren Kursleiter:innen** finden Sie alle Infos in der **offiziellen Moodle-Dokumentation**.

Zum **Kopieren, Verschieben** oder **Löschen** eines Kurses finden Sie alle Infos auf der **Moodle-Supportseite**.

# IMPORTANT



## Elective Modules

- Choose right number of A + B modules to end up with **40 CP**
- Decide in advance which official module your course should be assigned to
- **The choice of the module via PULS is binding!**

## Hold Deadlines

- Re-registration for the next semester
- Withdrawal period for courses > *remember to sign out of modules that you don't want to take*
- Examination registration/de-registration > *at least 8 days before exam*

**Keep your TAN list safe and available**

**Plagiarism is considered serious academic misconduct**

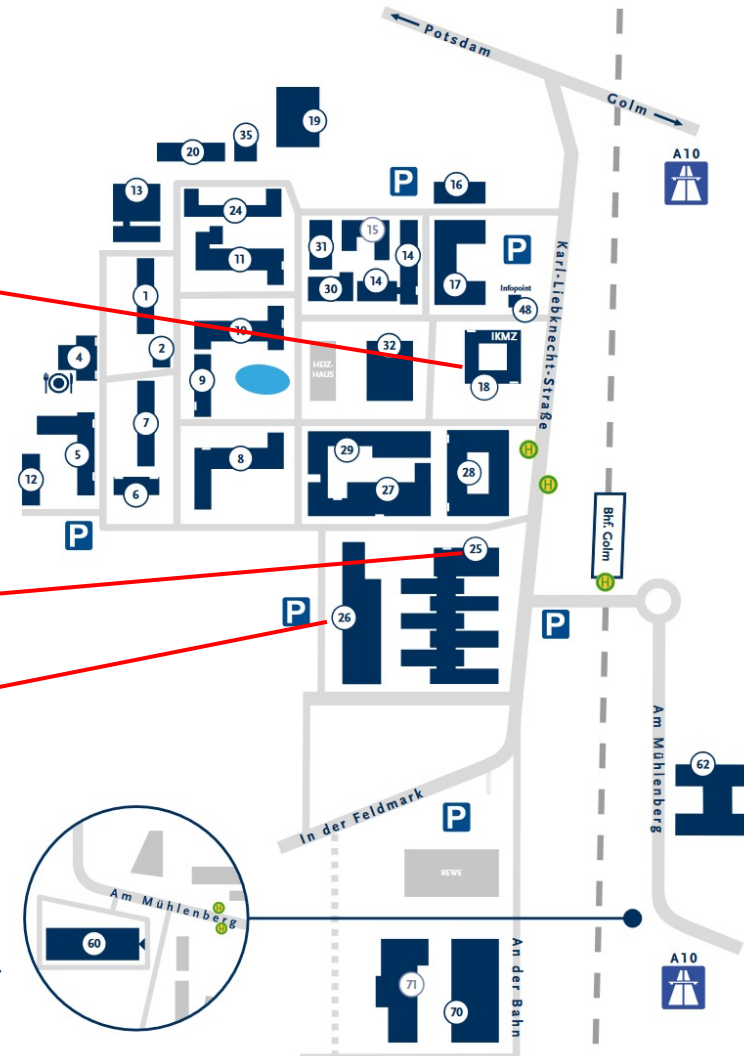
# CAMPUS GOLM



## Master Biochemistry and Molecular Biology

Campus II - Golm

Lageplan Campus II - Golm



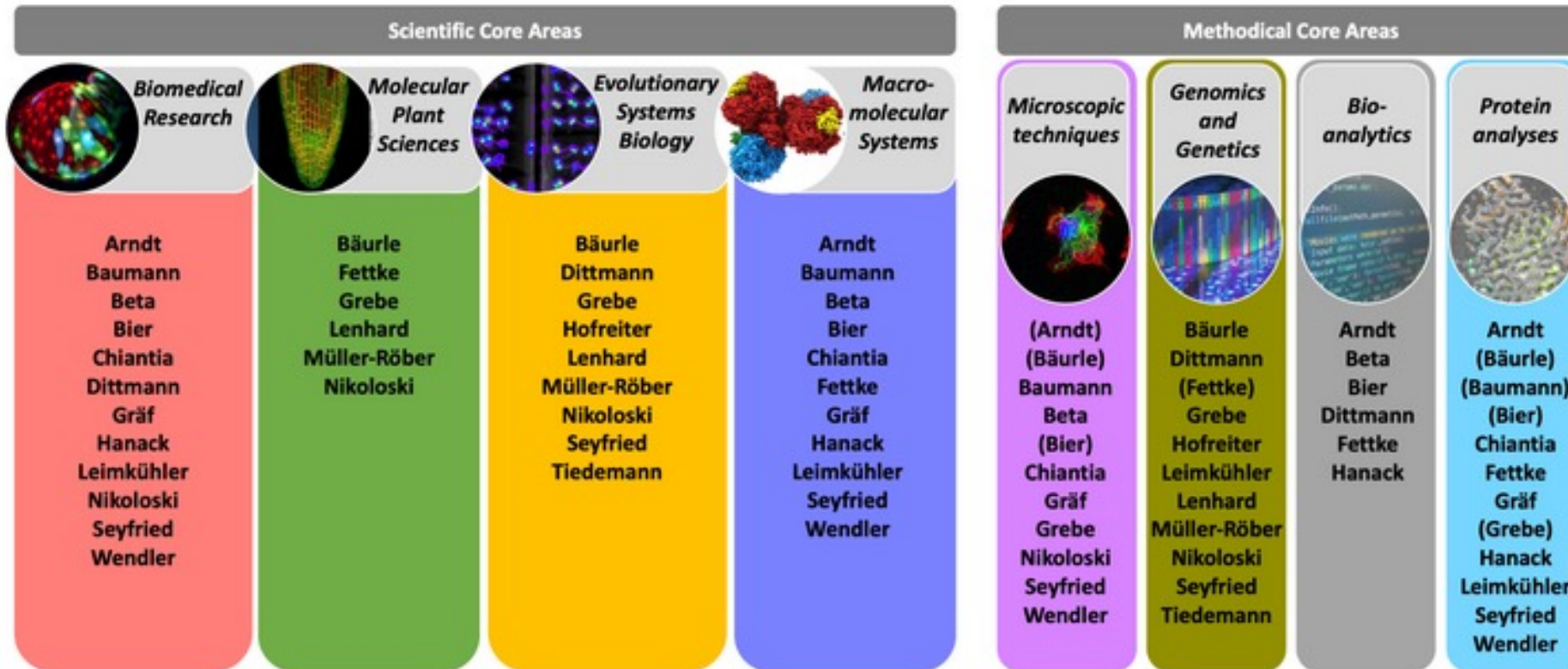
Haus	Bereich
1	Institut für Umweltwissenschaften und Geographie
2	HGP, Leitzentrale UP
4	Potsdam Research Institute for Multilingualism
4	Studentenwerk Potsdam: Mensa
5	Hörsaal, Seminarräume ZIM - Zentrum für Informationstechnologie und Medienmanagement
6	Department für Lehrerbildung - Musik und Musikpädagogik Fachbereich Grundschulpädagogik / Kunst
7	Studentenwerk Potsdam: Studentenwohnheim
8	Hochschulgebäudemanagement (HGP) Bereich Universität Potsdam ZIM - Zentrum für Informationstechnologie und Medienmanagement
9	Institut für Mathematik
10	Exchange, Project and Innovation-Center - EPI-Center Hochschulgebäudemanagement (HGP) Bereich Universität Potsdam - Fuhrpark
11	Alte Sporthalle Lehrinheit für Fach Wirtschaft-Arbeit-Technik
12	Hörsaal Institut für Umweltwissenschaften und Geographie
13	Atelier-Werkstätten Kunst Pädagogische Werkstatt
14	Lesecafé Department Erziehungswissenschaft Department Linguistik Department Psychologie Poststelle
15	Neubau
16	Bildungswissenschaften Fakultät für Gesundheitswissenschaften
17	Studentenwerk Potsdam: Studentenwohnheim
18	Universitätsbibliothek (IKMZ)
19	Sporthalle
20	Institut für Biochemie / Biologie
24	Department Lehrerbildung - Abteilung Primarstufe Department Linguistik / Allgemeine Sprachwissenschaft Department Psychologie Institut für Umweltwissenschaften und Geographie
25	Institut für Biochemie und Biologie Institut für Chemie
26	Institut für Biochemie und Biologie Institut für Chemie
27	Institut für Geowissenschaften
28	Dekanat der Mathematisch-Naturwissenschaftlichen Fakultät Institut für Physik und Astronomie
29	Institut für Biochemie und Biologie Institut für Chemie Institut für Geowissenschaften Potsdamer Transfer - Zentrale wissenschaftliche Einrichtung für Gründung, Innovation, Wissens- und Technologietransfer Strukturbereich Kognitionswissenschaften UP TRANSFER GmbH
30	Gewächshaus
31	Lehrerbildung mit dem Schwerpunkt Inklusionspädagogik
32	„Earth & Environment Centre (EEC) Potsdam“ und „Naturstoff-Genomik (NSG)“
35	Dekanat Humanwissenschaftliche Fakultät
60	Institut für Biochemie und Biologie
62	Fakultät für Gesundheitswissenschaften (FGW) und Zentrum für Lehrerbildung (ZelB)
70	Institut für Informatik und Computational Science
71	Neubau

[https://www.uni-potsdam.de/fileadmin/projects/adressen/lageplaene/2022-11\\_Campus\\_Golm\\_Lageplan\\_mit\\_Legende.pdf](https://www.uni-potsdam.de/fileadmin/projects/adressen/lageplaene/2022-11_Campus_Golm_Lageplan_mit_Legende.pdf)

# RESEARCH GROUPS



Master Biochemistry and  
Molecular Biology



Picture: P. Wendler

# CONTACT BAM



Master Biochemistry and  
Molecular Biology

**Examination Board:** [pabam2020@uni-potsdam.de](mailto:pabam2020@uni-potsdam.de)

Prof. Salvatore Chiantia (Head), Physical Biochemistry , Building 25 Room B/0.07

- Register Master thesis, Recognition of external or previous academic credentials, Disability compensation, Study prognosis

**Course guidance:** [tutoribb@uni-potsdam.de](mailto:tutoribb@uni-potsdam.de)

Dr. Marianne Grafe (Student Advisory)

Vivienne Wimmer (Student Tutor)

- Information on admission and study regulations, Study organisation, Help with PULS

# CONTACT FACULTY



Master Biochemistry and  
Molecular Biology

- **Coordinators / Persons of Trust**

<https://www.uni-potsdam.de/en/mnfakul/the-faculty/coordinators>

- **Equal Opportunities**

<https://www.uni-potsdam.de/en/mnfakul/the-faculty/coordinators/equal-opportunity-at-the-faculty-of-science>

<https://www.uni-potsdam.de/en/equality/>



# INTERNATIONAL OFFICE



Master Biochemistry and  
Molecular Biology

## Overview

International Students	^
International Degree Students	^
Study Prognosis	
Scholarships	
Beginning a Career	
International Program and Exchange Students	v
New Exchange Students summer term 2024	v
International Scientists & Scholars	
Refugees Welcome	
Learn German	
Summer Campus	

## International Applicants and Degree Students



### Advising and Services of the International Office

Right from the start we will be by your side. We are there for you during your studies until you complete your degree. The following consultation services are available to all international students, and we encourage you to make active use of them and to approach us with your individual needs.

Please note our [office hours](#).

✗ You can also contact us via e-mail: [incoming-degree@uni-potsdam.de](mailto:incoming-degree@uni-potsdam.de).

#### Stay in Potsdam

- [Housing during your studies](#)
- [Health insurance](#)
- [Visa and Student residence permit](#)
- [Resident Registration](#)
- [Scholarships for international students](#)
- [Work and Internships while Studying](#)

✗ ➤ [Buddy Program](#)

## Buddy International Welcome Picnic

Summer  
Semester 2024

ALL WELCOME

14.00 – 16:00

Don't delay -  
Register today:  
[Buddy Picnic  
Registration](#)

#### Where:

Central grass area  
Campus :  
Am Neuen Palais  
(bus stop: Campus  
Universität)

Friday 19th April

#### Suggestions to bring:

- a blanket or something to sit on
- your own food & drink
- sunshine and a good mood
- A shared game - cards / football!



A great chance to meet other international students and Potsdam Buddies

#### About Studying

- [Application & Enrollment for a Bachelor's, Master's, or PhD program on the pages "Study"](#)
- [Orientation at the University and their facilities](#)
- [Organisation of your studies: re-registration, part-time study, applying for a leave of absence](#)
- [Planning your studies: the standard period of study, the average length of study](#)
- [Study Prognosis for extension of your Residence Permit](#)
- [Tutoring and writing assistance for international students](#)

<https://www.uni-potsdam.de/en/international/incoming/international-students/degree>

# STUDENT COUNCIL



Master Biochemistry and  
Molecular Biology

[Startseite](#) [Aktuelle Veranstaltungen](#) + [Fachschaftsrat](#) + [Ersti](#) + [Nützliches](#) + [Kontakt & Impressum](#) +



Wir sind der Fachschaftsrat BCE der Universität Potsdam

Unsere Sitzungen finden alle 14 Tage um 18:15 Uhr statt. Treffpunkt ist vor unserem Raum (2.26.0.58) . Den nächsten Sitzungstermin findet ihr immer in unseren Protokollen.

<https://www.uni-potsdam.de/de/fsr-bce/>

# HELP



Master Biochemistry and  
Molecular Biology

## **Frequently Asked Questions BAM**

<https://www.uni-potsdam.de/en/bam/frequently-asked-questions-faq>

## **Enrollment**

<https://www.uni-potsdam.de/en/studium/application-enrollment/enrollment-master/master>

## **Information on Starting Your Studies, Advising, Services**

<https://www.uni-potsdam.de/en/studium/studying/information-on-starting-your-studies>

<https://www.uni-potsdam.de/en/studium/studying/forms-documents>

<https://www.uni-potsdam.de/en/studium/advising-and-services/overview>

## **Equal Opportunities at the Faculty of Science**

<https://www.uni-potsdam.de/en/mnfakul/the-faculty/coordinators/equal-opportunity-at-the-faculty-of-science/advice#c172703>