



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

Name	Biochemistry and Molecular Biology
Degree	Master of Science
Standard period of study	4 semesters
Credit points	120
Language of instruction	English
Start of study (1st semester)	Winter semester or summer semester
Campus	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 Winter term			
	Modules	CPs	Workload
1.	Compulsory Core Module 1 Intensive module 1x	6 11	Lecture series > 3x1.5 h per week
❖ 29 CP	❖ Elective modules 2xB	12	❖ 3 x lecture + seminar , 6 weeks practical courses
➤ 25 CP	➤ Elective modules 1xA	8	➤ 2x lecture + seminar , 8 week practical courses
2.	Compulsory Core Module 2 Intensive module 1x	6 11	4 SWS lecture + exercise > 2x1.5 h per week
❖ 31 CP	❖ Elective modules 1xA + 1xB	14	❖ 3 x lecture + seminar , 8 weeks practical courses
➤ 33 CP	➤ Elective modules 2xA	16	➤ 3x lecture + seminar , 10 week practical course
3.	Intensive module 1x	11	
❖ 30 CP	❖ Elective modules 1xA + 1xB	14	❖ 3x lecture + seminar , 8 weeks practical courses
➤ 32 CP	➤ Elective modules 2xA	16	➤ 3x lecture + seminar , 10 week practical courses
	Advanced Research Practical	5	4 weeks lab training (not graded)
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 - State of the Art in Biochemistry and Molecular Biology (6 LP, Pflichtmodul) -> Zum Modul	► <i>State of the Art in Biochemistry and Molecular Biology</i>
BIO-B-KM2 - Practical Bioinformatics (6 LP, Pflichtmodul) -> Zum Modul	► <i>Practical Bioinformatics</i>
BIO-B-RM1 - Nanobiotechnology (11 LP, Wahlpflichtmodul) -> Zum Modul	► <i>Nanobiotechnology</i>
BIO-B-RM10 - Modern Methods in Light Microscopy (11 LP, Wahlpflichtmodul) -> Zum Modul	► <i>Modern Methods in Light Microscopy</i>
BIO-B-RM11 - Physiology of Microorganisms (11 LP, Wahlpflichtmodul) -> Zum Modul	► <i>Physiology of Microorganisms</i>
BIO-B-RM12 - Current Aspects and Methods of Plant Cell Biology (11 LP, Wahlpflichtmodul) -> Zum Modul	► <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>

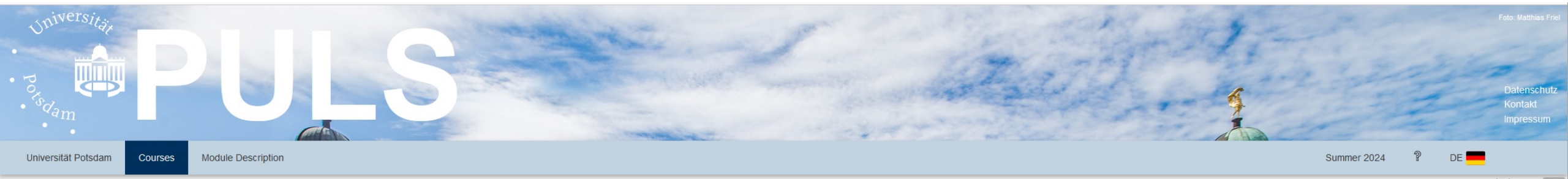


Foto: Matthias Friel

Datenschutz
Kontakt
Impressum

Universität Potsdam

Courses

Module Description

Summer 2024

?

DE 

Login

Node3

- 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: October 01 , 2024 – November 10, 2024 (except October 10)




- 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 [Elective Modules](#)
 - ① [BIO-B-WM1 - Biochemistry A](#)

Veranstaltungsart	Titel der Veranstaltung
 Vorlesung/Seminar	Metalloproteine
 Blockveranstaltung	Modern aspects of biochemistry and analytics of carbohydrates
 Blockveranstaltung	Theoretische und Praktische Einführung in die Massenspektrometrie

- 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	Analytische Biochemie	apply / withdraw application
 Vorlesung/Übung	Biophysik der Zelle	apply / withdraw application
 Vorlesung/Seminar	Metalloproteine	apply / withdraw application

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

Registration, enrollment, and withdrawal period for courses: October 01 , 2024 – November 10, 2024 (except October 10)

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	Current Research in Biochemistry and Molecular Biology in Local Research Institutes and Biotechnology Companies B Lecture	Registration is currently unavailable
✘ Seminar	Current Research in Biochemistry and Molecular Biology in Local Research Institutes and Biotechnology Companies B Seminar	Registration is currently unavailable
Blockveranstaltung	Modern aspects of biochemistry and analytics of carbohydrates	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-platform 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

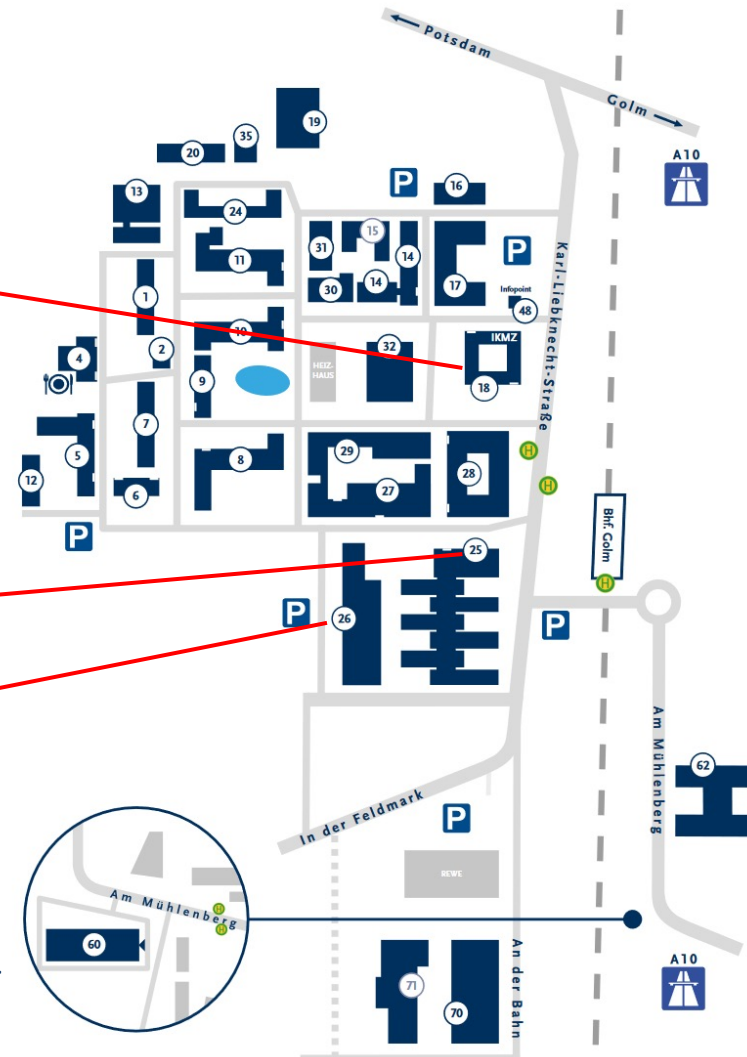
CAMPUS GOLM



Master Biochemistry and Molecular Biology

Campus II - Golm

Lageplan Campus II - Golm



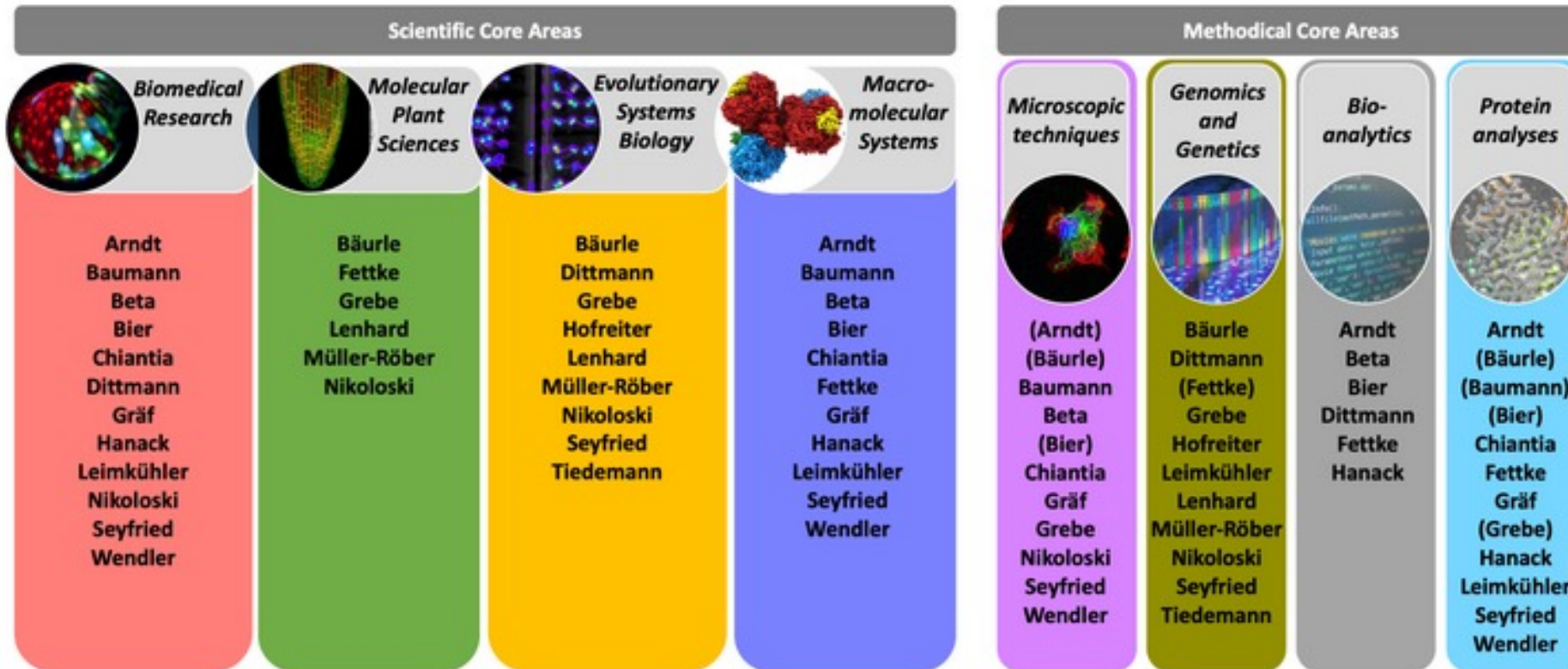
Haus	Bereich
1	Institut für Umweltwissenschaften und Geographie
2	HGP, Leitzentrale UP
4	Potsdam Research Institute for Multilingualism
4	Studentenwerk Potsdam: Mensa
5	Hörsaal, Seminarräume ZIM - Zentrum für Informationstechnologie und Medienmanagement
6	Department für Lehrerbildung - Musik und Musikpädagogik 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

RESEARCH GROUPS



Master Biochemistry and
Molecular Biology



Picture: P. Wendler

CONTACT BAM



Master Biochemistry and
Molecular Biology

Examination Board: 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

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.

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>