

MSc Biochemistry



Exemplary curriculum

Semester	Basics and electives	Methods	Research
1. (30 ECTS)	Main lecture part I (5 ECTS)	Method module 1. field (5 ECTS)	Research project 1. field (15 ECTS)
	Elective biochemical module (5 ECTS)		
2. (30 ECTS)	Main lecture part II (5 ECTS)	Method module 2. field (5 ECTS)	Research project 2. field (15 ECTS) ⁸
	Elective biochemical module (5 ECTS)		
3. (30 ECTS)	Free elective module (10 ECTS)	Method module 3. or affine field (5 ECTS)	Research project 3. or affine field (15 ECTS)
4. (30 ECTS)	Master's thesis and defence (30 ECTS)		

- **We will offer a more comprehensive introduction and suggestions, as soon as contact is allowed again**
- You will be informed by email



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Ungefähr 56.800.000 Ergebnisse (0,48 Sekunden)

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www.fu-berlin.de > vv

Vorlesungsverzeichnis - Freie Universität Berlin

Bitte beachten Sie die aktuellen Informationen hier: <https://www.fu-berlin.de/sites/coronavirus/index.html>. **Vorlesungsverzeichnis** für das Sommersemester 2020.

Wintersemester 2019/2020

Politik - Erziehungswissenschaft -
Geschichts - ...

Biologie, Chemie, Pharmazie

Die Angaben zur
Platzzahlbeschränkungen an ...

Sommersemester 2019

Die Vorlesungszeit im
Sommersemester beginnt am ...

Sommersemester 2018

Vorlesungsverzeichnis für das
Sommersemester 2018. Die ...

Wintersemester 2018/19

Die Vorlesungszeit im
Wintersemester beginnt am 15 ...

ABV für den Fachbereich ...

"Online-Semester SoSe 2020" Die
Lehre findet ausschließlich ...

[Weitere Ergebnisse von fu-berlin.de »](#)

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SoSe 20 - Vorlesungsverzeichnis

... wird der Beginn der Vorlesungszeit verschoben. Bitte beachten Sie die aktuellen
Informationen hier: <https://www.fu-berlin.de/sites/coronavirus/index.html> ...

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VORLESUNGSVERZEICHNIS

Fachbereiche ▾

Zentralinstitute ▾

Zentraleinrichtungen ▾

Weitere Angebote ▾

Semester ▾

SoSe 20 ▾

Fachbereich ▾

Studienfach ▾

Lehrveranstaltung ▾

Vorlesungszeit des Sommersemesters 2020 beginnt erst am 20. April!

Als Reaktion auf die Ausbreitung von Infektionen und Erkrankungen mit dem Coronavirus wird der Beginn der Vorlesungszeit verschoben.

Bitte beachten Sie die aktuellen Informationen hier: <https://www.fu-berlin.de/sites/coronavirus/index.html>

Vorlesungsverzeichnis für das Sommersemester 2020

Die Vorlesungszeit im Sommersemester beginnt am 20.04.2020 und endet am 18.07.2020.

Anmeldung zu Modulen und Lehrveranstaltungen

Details zur Anmeldung über Campus Management finden Sie [hier](#).

Den vollständigen Akademischen Terminkalender der Freien Universität finden Sie [hier](#).

 Suchbegriffe mit UND verbinden

COURSE CATALOG

- Departments
- Central Institutes
- Central Service Units
- Other courses
- Semester



- General Professional Skills
- Biology, Chemistry, and Pharmacy
- Centre for Teacher Education
- Education and Psychology
- Earth Sciences
- History and Cultural Studies
- Mathematics and Computer Science
- Philosophy and Humanities
- Physics
- Political and Social Sciences
- Law
- Veterinary Medicine
- School of Business and Economics

Enter a search term

Combine search terms by AND

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Biochemistry

Zuletzt geändert am 07. April. **Orientierungseinheit Bachelorstudiengang Biochemie Achtung!** Die Orientierungseinheiten werden im SS 2020 online stattfinden. Genauere Informationen werden auf folgender Wbsite ...
[read more](#)

Welcome Event for Master's Students Attention! The orientation days for the summer semester 2020 will be held online. Details can be found on this website: ...
[read more](#)

Tombola for Method Practicals Attention! The Tombola will not take place on 14th April. More Information will follow Tuesday, 14th April 2020, 9:00 a.m.; Biochemistry lecture hall (Lise-Meitner-Hörsaal), 2nd floor, ...
[read more](#)

Zuletzt geändert am 08. April. **Online-Semester SoSe 2020** Die Lehre findet ausschließlich digital statt - welches Format für Ihre gewählten LVen angewendet wird, finden Sie in den LV-Details. Diese werden in den kommenden Tagen ...
[read more](#)

- [General Information and Introductory Courses](#) 210601
- [Bachelor's Programme in Biochemistry](#) 210605
- [Master's programme in Biochemistry](#) 210611
- [Diploma Programme in Biochemistry \(1994 study regulations\)](#) 210621
- [Courses offered for other programmes](#) 210671
- [Colloquia and Scientific Work](#) 210681
- [Further courses](#) 210691



Chemistry

Orientierungseinheit Bachelor und Master Chemie ACHTUNG! Die Orientierungseinheit findet digital und zu anderen Zeiten statt! Nähere Infos siehe unten. Für Studienanfänger im Bachelor Chemie und Bachelor Chemie ...
[read more](#)

Zusatztutorialium Mathematik Während der Vorlesungszeit finden regelmäßig Zusatztuorien für Mathematik statt. Für Studierende aller Studiengänge der Chemie und Biochemie soll der Kurs Themen der Mathematik wiederholen und ergänzen, ...
[read more](#)

Course descriptions online

Basic Module: Introduction to Advanced Biochemistry			
University/Department/Institute: Freie Universität Berlin/Department of Biology, Chemistry, Pharmacy/Institute of Chemistry and Biochemistry			
Module supervisors: Lecturers of the module			
Entrance Requirements: none			
Goals of Qualification: Students have acquired the latest, structured knowledge of the research fields of structural biochemistry, molecular biology and molecular biomedicine. They are able to assess research facilities and to determine their future field of specialization.			
Contents: Current developments in the research fields of structural biochemistry, molecular cell biology and molecular medicine			
Teaching methods	Hours of attendance (semester periods per week)	Forms of active participation	Work effort (hours)
Lecture	3	-	Presence (L) 45 Pre-, post-preparation (L) 90
Seminar	1	Oral Presentation, Discussions	Presence (S) 15 Pre-, post-preparation (S) 60 Exam preparation and examination 90
Language offer of lecture		German and/or English	
Compulsory regular attendance		Yes	
Work effort (total)		300 hours	10 CP
Length of module		one semester	
Lecture is offered		every semester	
Applicability		Master study program Biochemistry	

- Studienordnung:
<https://www.fu-berlin.de/studium/studienangebot/master/biochemie>

Summer semester 2020

- No contact courses **during the lecture time** (until 18. July) (no Methods Modules, no Research Projects with lab work)
- Contact courses will be offered again as soon as possible, possibly during lecture-free time (starting 19. July)
- We will offer now:
 - Advanced Biochemistry parts 1 & 2
 - Seminar parts of many Methods Modules
 - Grant Writing Module
 - Specialized lectures/seminars (electives)
 - Friday Biochemistry Colloquia/Lise Meitner Colloquia

Typical setup of courses offered

- Commented PDFs, voiced-over PPTs or videos in advance on Blackboard
- Students can study the material and send questions by email to the instructor (up to one day before the regular seminar/lecture)
- Video conference at the scheduled time (regular lecture/seminar or Q/A)
- **Expect variations for each specific course**
- Each organizer will contact participants (Blackboard) with more specific instructions

Active participation and exams

- Active participation requirements will be communicated by each course organizer
- May differ for each course and for different parts of a Module
- Exams: Prospective dates (Course Catalog) and/or formats may change depending on the developments

Basics

Semester	Basics and electives	Methods	Research
1. (30 ECTS)	Main lecture part I (5 ECTS) Elective biochemical module (5 ECTS)	Method module 1. field (5 ECTS)	Research project 1. field (15 ECTS)
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3. (30 ECTS)	Free elective module (10 ECTS)	Method module 3. or affine field (5 ECTS)	Research project 3. or affine field (15 ECTS)
4. (30 ECTS)	Master's thesis and defence (30 ECTS)		

- Part 1 online: Fridays, 15:00 – 17:00
- Part 2 online: Mondays, 15:00 – 17:00
- Exams are scheduled 2 weeks apart
- **You could take both parts but they cover a lot of ground!**

- Advanced Biochemistry is **one course with two parts.**
- Both parts are mandatory (but it is not mandatory that you take both parts this semester).
- It will be graded based on results in two partial exams combined.

Methods

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- Only the **seminar parts** are offered during the lecture time
- You can combine **2 such seminars to a 5-LP course** (electives)
- Lab parts will be offered as soon as contact is possible again
- Some MMs are scheduled when contact may be possible again (may be conducted in full)

Methods

- Methods subject areas:
 1. Structural Biochemistry
 2. Molecular Biology
 3. Molecular Biomedicine
- Requirements:
 - Three MMs
 - Two MMs from two different areas
 - Third MM from third area or a related field (“affine area”)

Research

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- Not offered during the lecture time (until July 18th)
- Will be offered again as soon as possible
- It is well possible that you can do one RP during the lecture-free time

Research

- Research subject areas:
 1. Structural Biochemistry
 2. Molecular Biology
 3. Molecular Biomedicine
- Requirements:
 - Three 15-LP graded RPs
 - Two of these from two different areas
 - Third RP from third area or a related field (“affine area”)

Literature Search, Research Design & Grant Writing (216881 a/b)

- Can replace one 15-LP Research Project
- Two parts (5 LP and 10 LP)
- Your performance during the first part decides whether you can continue with the second part

Literature Search, Research Design & Grant Writing (216881 a/b)

Identifying a relevant research problem
(critical literature search)



Developing it into a PhD thesis project
(framing specific questions, feasibility)



Describing it coherently in words
(an exercise in scientific writing)

216881a

All in BlackBoard

Two recorded lectures
Select mentor by 26th April

Summary of your project or short
presentation: 24th May

216881b

Proposal deadline: 5th July

Peer review one proposal by
19th July

Electives

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- Free electives: Virtually any course offered by a university (watch out for interesting online courses)
- You can choose biochemical courses for both types of electives
- **Combined seminars** of 2 Methods Modules (“Specific aspects ...“)
- **Special lectures/seminars** offered by FUB Biochemistry (Course Catalog)

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- **Friday Biochemistry Colloquia/Lise Meitner Colloquia (12:30 – 13:30)**
- As video conferences
- Participation in 10 colloquia counts as a 2.5-LP **partial course**
- Can combine, e.g., with one MM seminar to a 5-LP course
- Documentation of participation will be communicated by organizers

Electives

- It is possible to import 15 CPs from BSc Biochemistry as electives:
 - Bioinformatik
 - Biostatistik
 - Evolution
 - Bioethik
 - Berufsorientierung

 - Only offered in German!

Before investing in a course elsewhere, make sure we will accept this course as an equivalent to one of our core courses or as an elective (email with detailed info on the course and suggested equivalent to the Prüfungsbüro).

Registering for courses

- Individually through Campus Management
- Plan judiciously what you can manage
- Avoid “hoarding“ of courses

Possible schedules

- Advanced BC parts 1 and 2
MM or RP in lecture-fee time* (15-25 LPs)
- Advanced BC part 1 or 2
Literature Search and Research Design
MM or RP in lecture-fee time* (25-35 LPs)
- Advanced BC part 1 or 2
2 MM seminars
Specialized lecture/seminar
MM or RP in lecture-fee time* (20-30 LPs)

* if regulations then allow

Questions?

- *Via* email to any faculty member
- *Via* email to Examination Office
- *Via* email to FSI
- *Via* email to Fiona Douglas (Studienberatung)
- **Only ask one at a time and allow 48 h of response time!**

Many thanks to ...

- FSI (**consider joining!**)
- Charlotte Biese, Nasrin Bollmor, Fiona Douglas, Marius Göbel, Shelly Harel, Leon Obendorf, Justus Wollburg
- Susanne Jäger (Sekretariat Biochemie)
- Christiane Müller (Studienbüro)
- Thorsten Grospietsch (Studium und Lehre)