ulm university universität ulm

# Facheinführung/Introduction

## MSc Biology

Prof. Dr. Marcus Fändrich, Dr. Stephanie Wittig-Blaich| Wintersemester 2025/2026 | Studienkommission Biologie/Biochemie

Study dean,
Prof. Dr. Marcus Fändrich

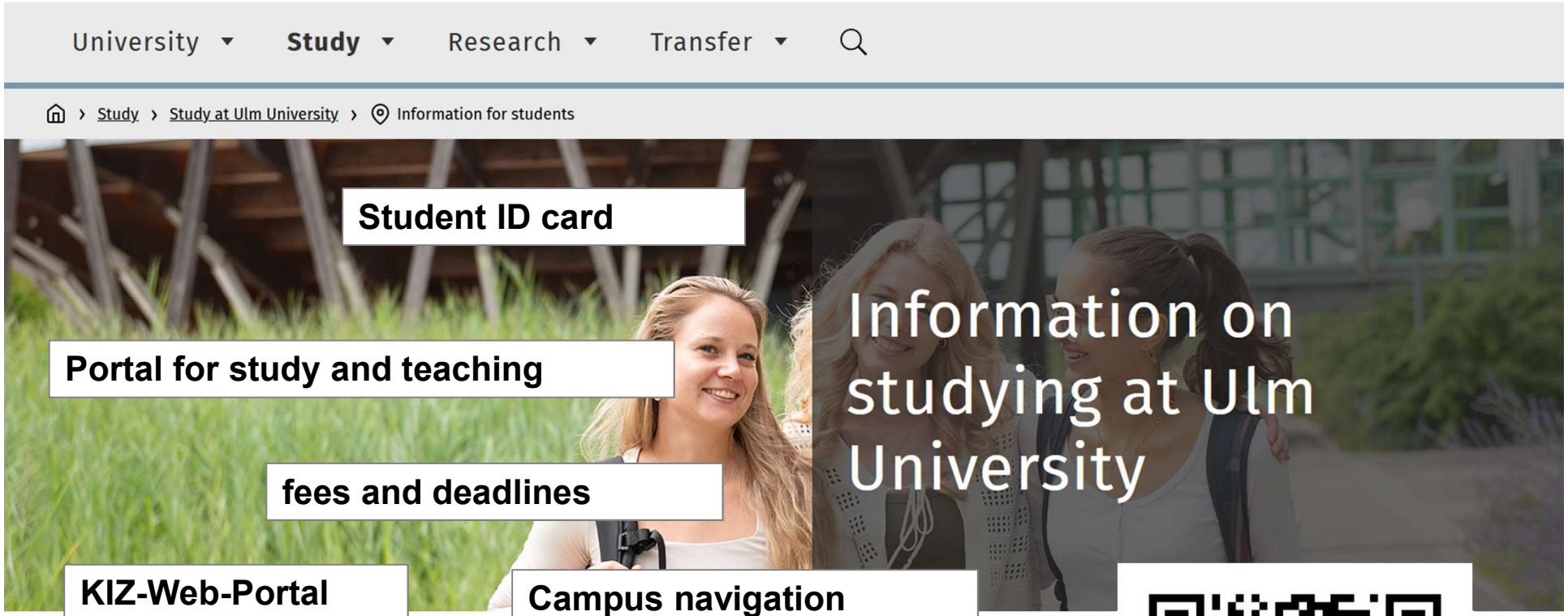
Chairman of the examination board Biology,
Prof. Dr. Marco Tschapka

## Study course coordinator team

Dr. Stephanie Wittig-Blaich,
Biology

Dr. Lena John,
Biochemistry

# Uni Ulm – information on studying at Ulm university




**Student ID card**

**Portal for study and teaching**

**fees and deadlines**

**KIZ-Web-Portal**

**Campus navigation**

**Moodle-access**

**...**

https://www.uni-ulm.de/en/study/study-at-ulm-university/information-for-students/

# Semester dates University Ulm

**Summer semester**
01.04. – 30.09.

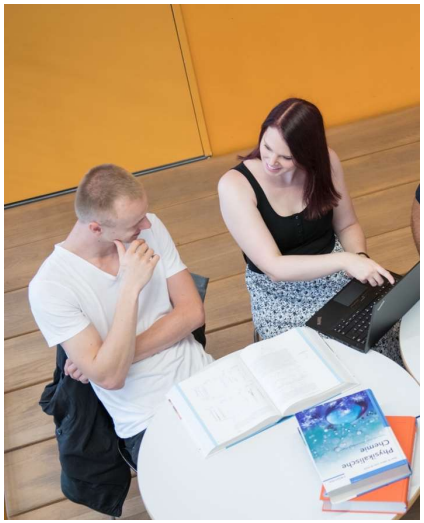
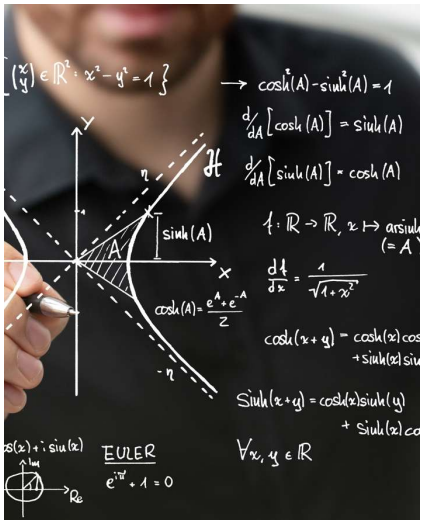
**Winter semester**
01.10. – 31.03.

**lecture periods:**
**Winter semester 2025/2026:**
Monday, 13.10.25 – Saturday, 14.02.26
no reading week 24.12.25 – 05.01.26

**Summer semester 2024**
Monday, 13.04.26 – Saturday, 18.07.26

Practical courses partly also after the end and before the start of the lecture period.




https://www.uni-ulm.de/en/study/organisation/lectures/academic-term-dates/

# Important contact persons

**Study dean department of biology**
Prof. Dr. Marcus Fändrich, marcus.faendrich@uni-ulm.de

**Chairman examination board biology**
Prof. Dr. Marco Tschapka, pa.biologie@uni-ulm.de

**Prüfungsausschuss Lehramt/Fachvertreter Biologie**
apl. Prof. Dr. Christian Riedel, christian.riedel@uni-ulm.de

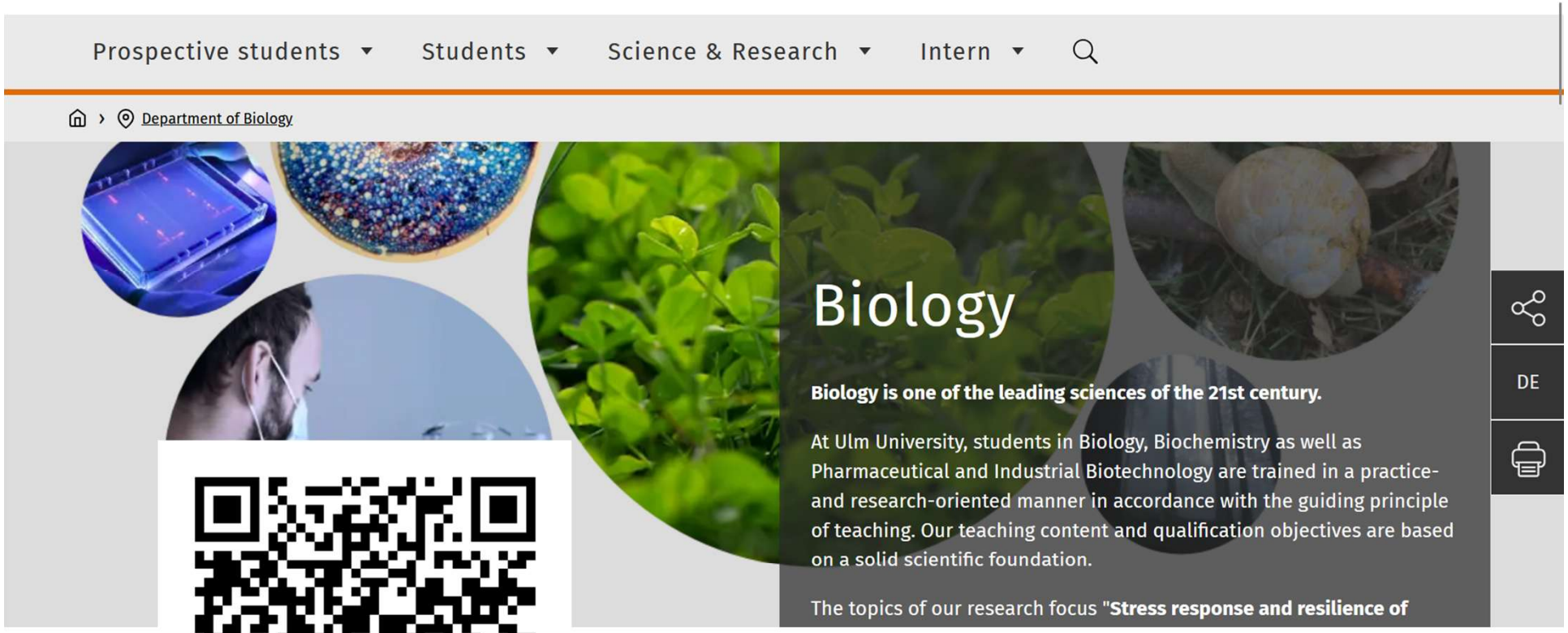
**Study course coordinator biology, teaching profession and international students**
Dr. Stephanie Wittig-Blaich, stephanie.wittig-blaich@uni-ulm.de,

**Secretariat SK biology**
Franziska Holder, sekretariat.biologie@uni-ulm.de

**Student secretariat**
studiensekretariat@uni-ulm.de

Homepage department of biology:
https://www.uni-ulm.de/en/nawi/department-of-biology/biology-department-home/

# Homepage Department Biology




https://www.uni-ulm.de/en/nawi/department-of-biology/biology-department-home/

# Important documents and information

- General framework (General provisions for study and examination regulations regarding bachelor's and master's programmes at Ulm University)
  → contains general regulations & information about studying at the University of Ulm

- Subject-specific Study and Examination Regulations (Subject-specific Study and Examination Regulations for the Bachelor Programme in Biology and the English-language Master Programme in Biology offered by Ulm University 2022)
  → contains regulations & information about the study of biology at the University of Ulm

- **module handbook/module descriptions**
  → contains information about the individual modules in the study program

- **Study plan**
  → shows the modules scheduled in the study program

**https://campusonline.uni-ulm.de**

# Important documents and information


**https://campusonline.uni-ulm.de**

# Study plan

- Compulsory area
- Compulsory elective area
- Complementary area

**Study plan Biology, Master of Science**
PO 2022

| Areas<br>Modules | Teaching courses | C / CE / Compl. | WS / SS | | ECTS |
|---|---|---|---|---|---|
| **Compulsory area: Biology** | | | | | 24 |
| Biology in Ulm: Stress response and resilience of biological systems | Stress response and resilience of biological systems (L) | C | WS | | 3 |
| | Scientific integrity, Data Analysis and Management (L) | C | SS | | 3 |
| | Molecular Biology and Biotechnology (L) | C | WS | | 3 |
| Advanced skills in life sciences | Philosophy of Science (S) | C | SS | | 3 |
| Advanced methods in Biology | Advanced methods in Biology (P, S) | C | WS / SS | | 12 |
| **Compulsory elective area: Research focus Biology[1]** | | | | | 30 |
| Molecular biology of Archaea | Molecular biology of Archaea (S, P) | CE | WS | | 15 |
| Advanced microbiology | Advanced microbiology (L, S, P) | CE | SS | | 15 |
| Cell biology & genetics | Cell biology & genetics (L, S, P) | CE | SS | | 15 |
| Endocrinology | Endocrinology (L, S, P) | CE | SS | | 15 |
| Conservation genomics | Conservation Genomics (L, S, P) | CE | WS | | 15 |
| Applied molecular ecology and evolution | Applied molecular ecology and evolution (L, S, P) | CE | WS | | 15 |
| Neurobiology & Behaviour | Neurobiology & Behaviour (L, S, P) | CE | SS | | 15 |
| Adaptation and diversity in tropical ecosystems | Adaptation and diversity in tropical ecosystems (L, S, P) | CE | WS | | 15 |
| Tropical ecology in Costa Rica | Tropical ecology in Costa Rica (S, P) | CE | WS / SS | | 15 |
| Molecular plant stress physiology | Molecular plant stress physiology (L, S, P) | CE | SS | | 15 |
| From tree biology to forest ecology | From tree biology to forest ecology (L, S, P) | CE | SS | | 15 |
| Biological chemistry | Biological chemistry (L)<br>Nucleic acid and peptide aptamers as the basis for functional materials in biotechnology (S, P) | CE | SS | | 15 |
| **Compulsory elective area: Advanced topics in biological resilience[2]** | | | | | 9 |
| Lectures of modules of the area "Research focus Biology", further biological courses on offer | depending on choice | CE | WS / SS | | 3-9 |
| **Compulsory elective area: Biology in Praxis[3]** | | | | | 3 |
| Excursion | choice from different excursion options | CE | SS | | 3 |
| Career perspectives in life science | Career perspectives in life science (S) | CE | WS | | 3 |
| Career exploration in Quality Assurance | Career exploration in Quality Assurance (L) | CE | SS | | 3 |
| **Compulsory elective area: Research focus Medicine[4]** | | | | | 15 |
| Human genetics | Human genetics (L, S, P) | CE | WS / SS | | 15 |
| Virology | Virology II - Part 1 & 2 (L, S) | CE | WS / SS | | 6 |
| | Virology II - Practical course (P) | CE | WS / SS | | 9 |
| Pharmacology/Toxicology | Pharmacology (L) | CE | WS | | 3 |
| | Toxicology (L) | CE | WS | | 3 |
| | Pharmacology & Toxicology (P, 2 S) | CE | WS / SS | | 9 |
| Clinical Neuroscience | Clinical Neuroscience Basic Lectures (L) | CE | WS | | 3 |
| | Clinical Neuroscience Basic Seminar (S) | | WS | | 3 |
| | Clinical Neuroscience Practical Training (P) | CE | WS | | 9 |
| **Complementary area[5]** | | | | | 9 |
| Elective courses from the modules offered at Ulm University | depending on choice | Compl. | WS / SS | | 9 |
| **Compulsory area: Thesis** | | | | | 30 |
| Master thesis | Master thesis (P) | C | WS / SS | | 30 |
| Sum | | | | | 120 |

Mobility[6]

# Study plan

- Compulsory area
- Compulsory elective area
- Complementary area

**Study plan Biology, Master of Science**
PO 2022

| Areas / Modules | Teaching courses | C / CE / Compl. | WS / SS | | ECTS |
|---|---|---|---|---|---|
| **Compulsory area: Biology** | | | | | 24 |
| Biology in Ulm: Stress response and resilience of biological systems | Stress response and resilience of biological systems (L) | C | WS | | 3 |
| | Scientific integrity, Data Analysis and Management (L) | C | SS | | 3 |
| | Molecular Biology and Biotechnology (L) | C | WS | | 3 |
| Advanced skills in life sciences | Philosophy of Science (S) | C | SS | | 3 |
| Advanced methods in Biology | Advanced methods in Biology (P, S) | C | WS / SS | | 12 |
| **Compulsory elective area: Research focus Biology[1]** | | | | | 30 |
| Molecular biology of Archaea | Molecular biology of Archaea (S, P) | CE | WS | | 15 |
| Advanced microbiology | Advanced microbiology (L, S, P) | CE | SS | | 15 |
| Cell biology & genetics | Cell biology & genetics (L, S, P) | CE | SS | | 15 |
| Endocrinology | Endocrinology (L, S, P) | CE | SS | | 15 |
| Conservation genomics | Conservation Genomics (L, S, P) | CE | WS | | 15 |
| Applied molecular ecology and evolution | Applied molecular ecology and evolution (L, S, P) | CE | WS | | 15 |
| Neurobiology & Behaviour | Neurobiology & Behaviour (L, S, P) | CE | SS | | 15 |
| Adaptation and diversity in tropical ecosystems | Adaptation and diversity in tropical ecosystems (L, S, P) | CE | WS | | 15 |
| Tropical ecology in Costa Rica | Tropical ecology in Costa Rica (S, P) | CE | WS / SS | | 15 |
| Molecular plant stress physiology | Molecular plant stress physiology (L, S, P) | CE | SS | | 15 |
| From tree biology to forest ecology | From tree biology to forest ecology (L, S, P) | CE | SS | | 15 |
| Biological chemistry | Biological chemistry (L) | CE | SS | | 15 |
| | Nucleic acid and peptide aptamers as the basis for functional materials in biotechnology (S, P) | | | | |
| **Compulsory elective area: Advanced topics in biological resilience[2]** | | | | | 9 |
| Lectures of modules of the area "Research focus Biology", further biological courses on offer | depending on choice | CE | WS / SS | | 3-9 |
| **Compulsory elective area: Biology in Praxis[3]** | | | | | 3 |
| Excursion | choice from different excursion options | CE | SS | | 3 |
| Career perspectives in life science | Career perspectives in life science (S) | CE | WS | | 3 |
| Career exploration in Quality Assurance | Career exploration in Quality Assurance (L) | CE | SS | | 3 |
| **Compulsory elective area: Research focus Medicine[4]** | | | | | 15 |
| Human genetics | Human genetics (L, S, P) | CE | WS / SS | | 15 |
| Virology | Virology II - Part 1 & 2 (L, S) | CE | WS / SS | | 6 |
| | Virology II - Practical course (P) | CE | WS / SS | | 9 |
| Pharmacology/Toxicology | Pharmacology (L) | CE | WS | | 3 |
| | Toxicology (L) | CE | WS | | 3 |
| | Pharmacology & Toxicology (P, 2 S) | CE | WS / SS | | 9 |
| Clinical Neuroscience | Clinical Neuroscience Basic Lectures (L) | CE | WS | | 3 |
| | Clinical Neuroscience Basic Seminar (S) | | WS | | 3 |
| | Clinical Neuroscience Practical Training (P) | CE | WS | | 9 |
| **Complementary area[5]** | | | | | 9 |
| Elective courses from the modules offered at Ulm University | depending on choice | Compl. | WS / SS | | 9 |
| **Compulsory area: Thesis** | | | | | 30 |
| Master thesis | Master thesis (P) | C | WS / SS | | 30 |
| Sum | | | | | 120 |

Mobility[6]

# Study plan

- Compulsory area
- Compulsory elective area
- Complementary area

**Study plan Biology, Master of Science**
PO 2022

| Areas<br>Modules | Teaching courses | C / CE / Compl. | WS / SS | | ECTS |
|---|---|---|---|---|---|
| **Compulsory area: Biology** | | | | | 24 |
| Biology in Ulm: Stress response and resilience of biological systems | Stress response and resilience of biological systems (L) | C | WS | | 3 |
| | Scientific integrity, Data Analysis and Management (L) | C | SS | | 3 |
| | Molecular Biology and Biotechnology (L) | C | WS | | 3 |
| Advanced skills in life sciences | Philosophy of Science (S) | C | SS | | 3 |
| Advanced methods in Biology | Advanced methods in Biology (P, S) | C | WS / SS | | 12 |
| **Compulsory elective area: Research focus Biology**[1] | | | | | 30 |
| Molecular biology of Archaea | Molecular biology of Archaea (S, P) | CE | WS | | 15 |
| Advanced microbiology | Advanced microbiology (L, S, P) | CE | SS | | 15 |
| Cell biology & genetics | Cell biology & genetics (L, S, P) | CE | SS | | 15 |
| Endocrinology | Endocrinology (L, S, P) | CE | SS | | 15 |
| Conservation genomics | Conservation Genomics (L, S, P) | CE | WS | | 15 |
| Applied molecular ecology and evolution | Applied molecular ecology and evolution (L, S, P) | CE | WS | | 15 |
| Neurobiology & Behaviour | Neurobiology & Behaviour (L, S, P) | CE | SS | | 15 |
| Adaptation and diversity in tropical ecosystems | Adaptation and diversity in tropical ecosystems (L, S, P) | CE | WS | | 15 |
| Tropical ecology in Costa Rica | Tropical ecology in Costa Rica (S, P) | CE | WS / SS | | 15 |
| Molecular plant stress physiology | Molecular plant stress physiology (L, S, P) | CE | SS | | 15 |
| From tree biology to forest ecology | From tree biology to forest ecology (L, S, P) | CE | SS | | 15 |
| Biological chemistry | Biological chemistry (L)<br>Nucleic acid and peptide aptamers as the basis for functional materials in biotechnology (S, P) | CE | SS | | 15 |
| **Compulsory elective area: Advanced topics in biological resilience**[2] | | | | | 9 |
| Lectures of modules of the area "Research focus Biology", further biological courses on offer | depending on choice | CE | WS / SS | | 3-9 |
| **Compulsory elective area: Biology in Praxis**[3] | | | | | 3 |
| Excursion | choice from different excursion options | CE | SS | | 3 |
| Career perspectives in life science | Career perspectives in life science (S) | CE | WS | | 3 |
| Career exploration in Quality Assurance | Career exploration in Quality Assurance (L) | CE | SS | | 3 |
| **Compulsory elective area: Research focus Medicine**[4] | | | | | 15 |
| Human genetics | Human genetics (L, S, P) | CE | WS / SS | | 15 |
| Virology | Virology II - Part 1 & 2 (L, S) | CE | WS / SS | | 6 |
| | Virology II - Practical course (P) | CE | WS / SS | | 9 |
| Pharmacology/Toxicology | Pharmacology (L) | CE | WS | | 3 |
| | Toxicology (L) | CE | WS | | 3 |
| | Pharmacology & Toxicology (P, 2 S) | CE | WS / SS | | 9 |
| Clinical Neuroscience | Clinical Neuroscience Basic Lectures (L) | CE | WS | | 3 |
| | Clinical Neuroscience Basic Seminar (S) | | WS | | 3 |
| | Clinical Neuroscience Practical Training (P) | CE | WS | | 9 |
| **Complementary area**[5] | | | | | 9 |
| Elective courses from the modules offered at Ulm University | depending on choice | Compl. | WS / SS | | 9 |
| **Compulsory area: Thesis** | | | | | 30 |
| Master thesis | Master thesis (P) | C | WS / SS | | 30 |
| Sum | | | | | 120 |

Mobility[6]

# Study plan

- Start in the first week
- Fixed dates see time table
- Fixed dates see campusonline Portal, lectures start in the first or second week

campusonline Portal

PO 2022

| Areas<br>Modules | Teaching courses | C / CE / Compl. | WS / SS | | ECTS |
|---|---|---|---|---|---|
| **Compulsory area: Biology** | | | | | 24 |
| Biology in Ulm: Stress response and resilience of biological systems | Stress response and resilience of biological systems (L) | C | WS | | 3 |
| | Scientific integrity, Data Analysis and Management (L) | C | SS | | 3 |
| | Molecular Biology and Biotechnology (L) | C | WS | | 3 |
| Advanced skills in life sciences | Philosophy of Science (S) | C | SS | | 3 |
| Advanced methods in Biology | Advanced methods in Biology (P, S) | C | WS / SS | | 12 |
| **Compulsory elective area: Research focus Biology[1]** | | | | | 30 |
| Molecular biology of Archaea | Molecular biology of Archaea (S, P) | CE | WS | | 15 |
| Advanced microbiology | Advanced microbiology (L, S, P) | CE | SS | | 15 |
| Cell biology & genetics | Cell biology & genetics (L, S, P) | CE | SS | | 15 |
| Endocrinology | Endocrinology (L, S, P) | CE | SS | | 15 |
| Conservation genomics | Conservation Genomics (L, S, P) | CE | WS | | 15 |
| Applied molecular ecology and evolution | Applied molecular ecology and evolution (L, S, P) | CE | WS | | 15 |
| Neurobiology & Behaviour | Neurobiology & Behaviour (L, S, P) | CE | SS | | 15 |
| Adaptation and diversity in tropical ecosystems | Adaptation and diversity in tropical ecosystems (L, S, P) | CE | WS | | 15 |
| Tropical ecology in Costa Rica | Tropical ecology in Costa Rica (S, P) | CE | WS / SS | | 15 |
| Molecular plant stress physiology | Molecular plant stress physiology (L, S, P) | CE | SS | | 15 |
| From tree biology to forest ecology | From tree biology to forest ecology (L, S, P) | CE | SS | | 15 |
| Biological chemistry | Biological chemistry (L)<br>Nucleic acid and peptide aptamers as the basis for functional materials in biotechnology (S, P) | CE | SS | | 15 |
| **Compulsory elective area: Advanced topics in biological resilience[2]** | | | | | 9 |
| Lectures of modules of the area "Research focus Biology", further biological courses on offer | depending on choice | CE | WS / SS | | 3-9 |
| **Compulsory elective area: Biology in Praxis[3]** | | | | | 3 |
| Excursion | choice from different excursion options | CE | SS | | 3 |
| Career perspectives in life science | Career perspectives in life science (S) | CE | WS | | 3 |
| Career exploration in Quality Assurance | Career exploration in Quality Assurance (L) | CE | SS | | 3 |
| **Compulsory elective area: Research focus Medicine[4]** | | | | | 15 |
| Human genetics | Human genetics (L, S, P) | CE | WS / SS | Mobility[5] | 15 |
| Virology | Virology II - Part 1 & 2 (L, S) | CE | WS / SS | | 6 |
| | Virology II - Practical course (P) | CE | WS / SS | | 9 |
| Pharmacology/Toxicology | Pharmacology (L) | CE | WS | | 3 |
| | Toxicology (L) | CE | WS | | 3 |
| | Pharmacology & Toxicology (P, 2 S) | CE | WS / SS | | 9 |
| Clinical Neuroscience | Clinical Neuroscience Basic Lectures (L) | CE | WS | | 3 |
| | Clinical Neuroscience Basic Seminar (S) | | WS | | 3 |
| | Clinical Neuroscience Practical Training (P) | CE | WS | | 9 |
| **Complementary area[3]** | | | | | 9 |
| Elective courses from the modules offered at Ulm University | depending on choice | Compl. | WS / SS | | 9 |
| **Compulsory area: Thesis** | | | | | 30 |
| Master thesis | Master thesis (P) | C | WS / SS | | 30 |
| Sum | | | | | 120 |

# Compulsory area: Biology

| Areas<br>Modules | Teaching courses | C / CE / Compl. | WS / SS | | ECTS |
|---|---|---|---|---|---|
| **Compulsory area: Biology** | | | | | 24 |
| Biology in Ulm: Stress response and resilience of biological systems | Stress response and resilience of biological systems (L) | C | WS | | 3 |
| | Scientific integrity, Data Analysis and Management (L) | C | SS | | 3 |
| | Molecular Biology and Biotechnology (L) | C | WS | | 3 |
| Advanced skills in life sciences | Philosophy of Science (S) | C | SS | | 3 |

Start in first week

MSc Biology — 1./3. Semester — Winter term 2025/26 — As of: 22.07.2025
FSPO 2022 — Subject to change

| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| 8-9 | Block lecture* H8 | Block lecture* H9 | Stress Response & Resilience (Ring-Vorlesung) alle Profs Bio H15 | Molecular Biology & Biotechnology (Lecture; until Christmas) Further dates: see below Marchfelder H13 | Block lecture* H9 |
| 9-10 | | | | | |
| 10-11 | Pharmakologie f. Naturwissenschaftler II (Lecture) Papatheodorou H8 | Molekulare Humangenetik (Lecture) Högel N24/227 / Hands-on Bioinformatic Tools (Lecture/Exercise) Bengelsdorf N24/101 | Virology II part 1 (Lecture) v. Einem H8 / Clinical Neuroscience O29/2002 | Block lecture* H8 | Toxikologie (Lecture) Barth H16 |
| 11-12 | | | | | |
| 12-13 | | | | | |
| 13-14 | | | | | |
| 14-15 | | | | | |
| 15-16 | | | | | |
| 16-17 | | | | | |
| 17-18 | | | Career field exploration: "Karriereperspektiven in den Biowissenschaften" Gronemeyer u.a. H8/online | | |
| 18-19 | | | | | |

*: Dates of the Master modules WS 24/25 (Practical courses, seminars and block lectures):
Conservation Genomics: 03. - 28.11.25; Sommer
Adaptation and diversity in tropical ecosystems: 12.01. - 06.02.26; Tschapka, Jansen
Molecular Biology of Archaea: 23.02. - 20.03.26 all day (only practical course and seminar); Marchfelder
Further dates for the lecture "Molecular Biology & Biotechnology" (H13, 2 - 4 pm): 15.12.2025, 17.12.2025, 07.01.2026

Compulsory area | Compulsory elective areas: Research focus Biology & Advanced topics in Biological resilience | Compulsory elective area: Research focus Medicine | Compulsory elective area: Biology in Praxis | Complementary area

# Compulsory elective area: Research focus Biology

| | | | | | |
|---|---|---|---|---|---|
| **Compulsory elective area: Research focus Biology**[1] | | | | | 30 |
| Molecular biology of Archaea | Molecular biology of Archaea (S, P) | CE | WS | | 15 |
| Advanced microbiology | Advanced microbiology (L, S, P) | CE | SS | | 15 |
| Cell biology & genetics | Cell biology & genetics (L, S, P) | CE | SS | | 15 |
| Endocrinology | Endocrinology (L, S, P) | CE | SS | | 15 |
| Conservation genomics | Conservation Genomics (L, S, P) | CE | WS | | 15 |
| Applied molecular ecology and evolution | Applied molecular ecology and evolution (L, S, P) | CE | WS | | 15 |
| Neurobiology & Behaviour | Neurobiology & Behaviour (L, S, P) | CE | SS | | 15 |
| Adaptation and diversity in tropical ecosystems | Adaptation and diversity in tropical ecosystems (L, S, P) | CE | WS | | 15 |
| Tropical ecology in Costa Rica | Tropical ecology in Costa Rica (S, P) | CE | WS / SS | | 15 |
| Molecular plant stress physiology | Molecular plant stress physiology (L, S, P) | CE | SS | | 15 |
| From tree biology to forest ecology | From tree biology to forest ecology (L, S, P) | CE | SS | | 15 |
| Biological chemistry | Biological chemistry (L)<br>Nucleic acid and peptide aptamers as the basis for functional materials in biotechnology (S, P) | CE | SS | | 15 |

At least 2 modules required

information

- in moodle course: https://moodle.uni-ulm.de/course/view.php?id=24550
- on department website: https://www.uni-ulm.de/en/nawi/department-of-biology/students/master/modules-in-the-masters-programmes/

Available this winter semester (capacity!):

- Conservation Genomics: 03.11. - 28.11.25
- Adaptation and diversity in tropical ecosystems: 12.01. – 06.02.26
- Molecular Biology of Archaea: 23.02. - 20.03.26

- Further modules in summer term

# Compulsory elective area: Research focus Biology

| | | | | | |
|---|---|---|---|---|---|
| **Compulsory elective area: Research focus Biology**[1] | | | | | 30 |
| Molecular biology of Archaea | Molecular biology of Archaea (S, P) | CE | WS | | 15 |
| Advanced microbiology | Advanced microbiology (L, S, P) | CE | SS | | 15 |
| Cell biology & genetics | Cell biology & genetics (L, S, P) | CE | SS | | 15 |
| Endocrinology | Endocrinology (L, S, P) | CE | SS | | 15 |
| Conservation genomics | Conservation Genomics (L, S, P) | CE | WS | | 15 |
| Applied molecular ecology and evolution | Applied molecular ecology and evolution (L, S, P) | CE | WS | | 15 |
| Neurobiology & Behaviour | Neurobiology & Behaviour (L, S, P) | CE | SS | | 15 |
| Adaptation and diversity in tropical ecosystems | Adaptation and diversity in tropical ecosystems (L, S, P) | CE | WS | | 15 |
| Tropical ecology in Costa Rica | Tropical ecology in Costa Rica (S, P) | CE | WS / SS | | 15 |
| Molecular plant stress physiology | Molecular plant stress physiology (L, S, P) | CE | SS | | 15 |
| From tree biology to forest ecology | From tree biology to forest ecology (L, S, P) | CE | SS | | 15 |
| Biological chemistry | Biological chemistry (L)<br>Nucleic acid and peptide aptamers as the basis for functional materials in biotechnology (S, P) | CE | SS | | 15 |

At least 2 modules required

## Module choice

- Choice in moodle course closed
- Please write an E-Mail with your selected modules (first and second priority) to lena.john@uni-ulm.de until 14th of October at the latest

# Compulsory elective area: Advanced topics in biological resilience

| | | | | |
|---|---|---|---|---|
| **Compulsory elective area: Advanced topics in biological resilience**[2] | | | | 9 |
| Lectures of modules of the area "Research focus Biology", Courses in Biology | depending on choice | CE | WS / SS | 3-9 |

At least 9 ECTS required (fixed dates)

- Advanced topics of biological resilience - only lectures of the biology modules and other biological courses
- In this WS only two lectures available
- Further courses in SS


→ Enrol into the moodle courses

# Compulsory elective area: Biology in Praxis

| | | | | |
|---|---|---|---|---|
| **Compulsory elective area: Biology in Praxis[3]** | | | | 3 |
| Excursion | choice from different excursion options | CE | SS | 3 |
| Career perspectives in life science | Career perspectives in life science (S) | CE | WS | 3 |
| Career exploration in Quality Assurance | Career exploration in Quality Assurance | CE | SS | 3 |

At least 3 ECTS required

- Career perspectives in life science (seminar) – German!
  Wednesday, 5 pm, online or H8
- Career exploration in Quality Assurance in SS
- Excursions of SS 26 soon on department website

# Compulsory elective area: Research focus Medicine

| Compulsory elective area: Research focus Medicine[4] | | | | Mobility[6] | 15 |
|---|---|---|---|---|---|
| Human genetics | Human genetics (L, S, P) | CE | WS / SS | | 15 |
| Virology | Virology II - Part 1 & 2 (L, S) | CE | WS / SS | | 6 |
| | Virology II - Practical course (P) | CE | WS / SS | | 9 |
| Pharmacology/Toxicology | Pharmacology (L) | CE | WS | | 3 |
| | Toxicology (L) | CE | WS | | 3 |
| | Pharmacology & Toxicology (P, 2 S) | CE | WS / SS | | 9 |
| Clinical Neuroscience | Clinical Neuroscience Basic Lectures (L) | CE | WS | | 3 |
| | Clinical Neuroscience Basic Seminar (S) | | WS | | 3 |
| | Clinical Neuroscience Practical Training | CE | WS | | 9 |

At least 1 module required
(Fixed dates see campusonline Portal, lectures start in the first or second week)

MSc Biology — 1./3. Semester — Winter term 2025/26 — As of: 22.07.2025
FSPO 2022 — Subject to change

| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| 8-9 | Block lecture* H8 | Block lecture* H9 | Stress Response & Resilience (Ring-Vorlesung) alle Profs Bio H15 | Molecular Biology & Biotechnology (Lecture; until Christmas) Further dates: see below Marchfelder H13 | Block lecture* H9 |
| 9-10 | | | | | |
| 10-11 | Pharmakologie f. Naturwissenschaftler II (Lecture) Papatheodorou H8 | Molekulare Humangenetik (Lecture) Högel N24/227 | Hands-on Bioinformatic Tools (Lecture/Exercise) Bengelsdorf N24/101 | Virology II part 1 (Lecture) v. Einem H8 | Clinical Neuroscience O29/2002 | Block lecture* H8 | Toxikologie (Lecture) Barth H16 |
| 11-12 | | | | | |
| 12-13 | | | | | |
| 13-14 | | | | | |
| 14-15 | | | | | |
| 15-16 | | | | | |
| 16-17 | | | | | |
| 17-18 | | | Career field exploration: "Karriereperspektiven in den Biowissenschaften" Gronemeyer u.a. H8/online | | |
| 18-19 | | | | | |

*: Dates of the Master modules WS 24/25 (Practical courses, seminars and block lectures):
Conservation Genomics: 03. - 28.11.25; Sommer
Adaptation and diversity in tropical ecosystems: 12.01. - 06.02.26; Tschapka, Jansen
Molecular Biology of Archaea: 23.02. - 20.03.26 all day (only practical course and seminar); Marchfelder
Further dates for the lecture "Molecular Biology & Biotechnology" (H13, 2 - 4 pm): 15.12.2025, 17.12.2025, 07.01.2026

Compulsory area | Compulsory elective areas: Research focus Biology & Advanced topics in Biological resilience | Compulsory elective area: Research focus Medicine | Compulsory elective area: Biology in Praxis | Complementary area

# Complementary area

| | | | | | |
|---|---|---|---|---|---|
| **Complementary area**[3] | | | | | 9 |
| Elective courses from the modules offered at Ulm University | | depending on choice | Compl. | WS / SS | 9 |

At least 9 ECTS required

Examples:

- Language courses
- Patent right
- Psychology courses
- Economics
- Bioinformatics
- …

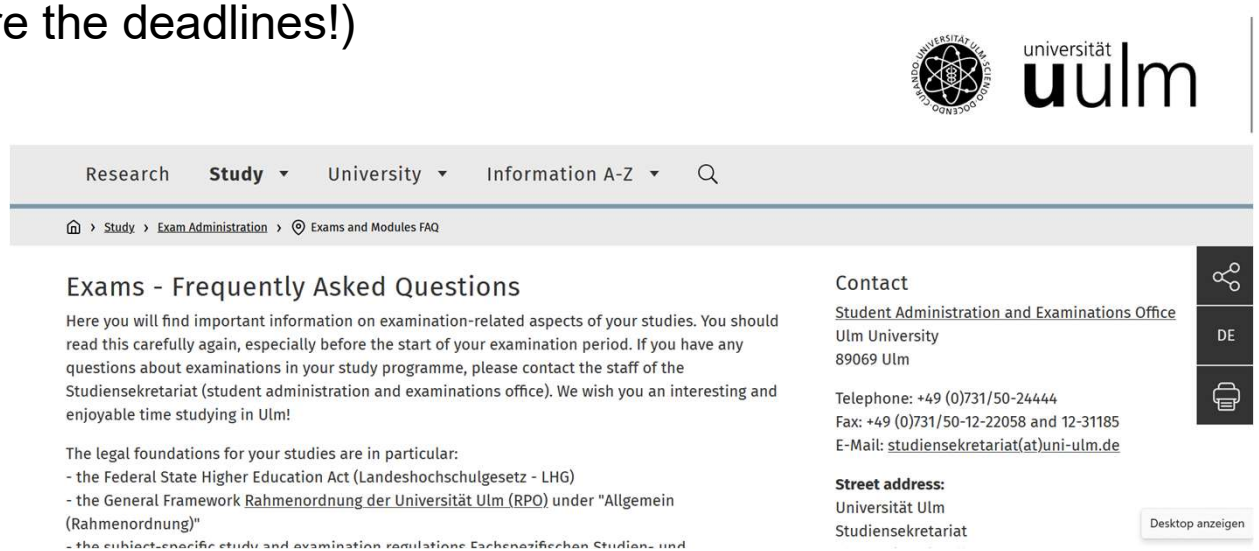
→ **Thinking outside the box**

- some modules have already been assigned in the complementary area of your degree program.
- module assignment under the following link:

https://www.uni-ulm.de/en/study/exam-administration/forms-and-guides-for-students/application-for-module-assignment/

# Examinations and deadlines

- 3 attempts per exam
- exam registration via the university portal campusonline
- deadline for registration of written exams: 5 days BEFORE exam day (e.g. exam date 21.02., last possibility to register: 16.02.)
- Deregistration from the exam possible up to 1 day before the exam date
- Any problems with registration? → Email studiensekretariat@uni-ulm.de (before the deadlines!)



# Examinations and deadlines

- credit deadlines (**see subject specific study and examination regulations**) :

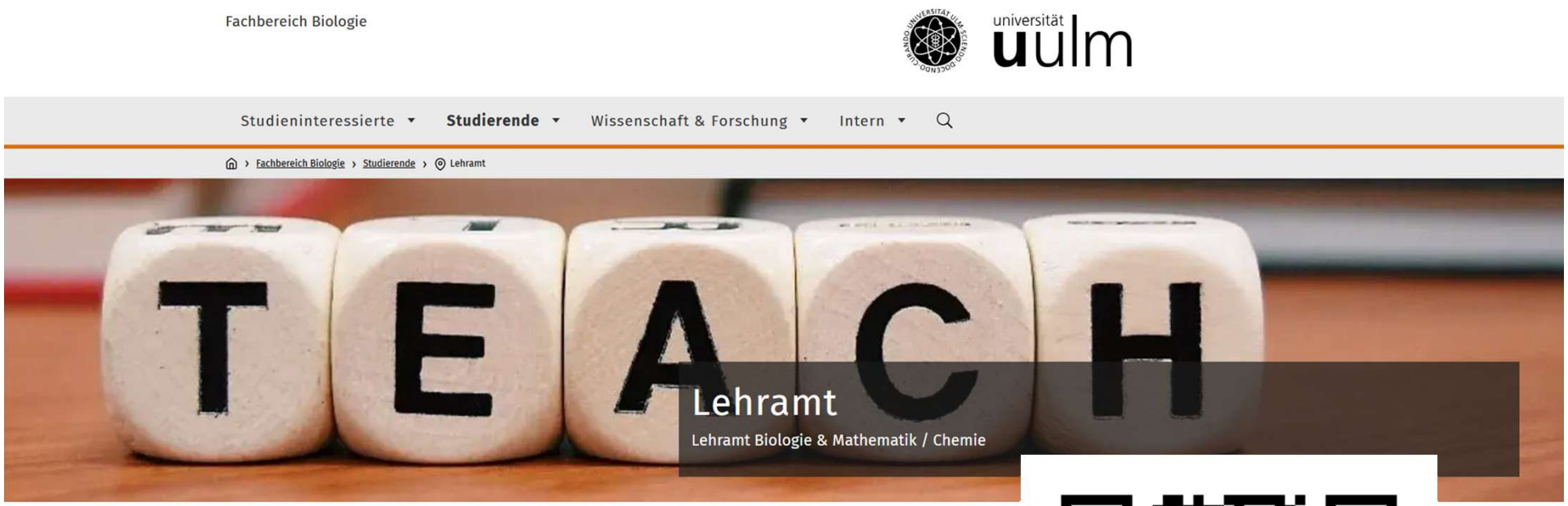
after 3. semester: 48 credit points

after 5. semester: 74 credit points

after 7. semester: 120 credit points

otherwise loss of examination rights!

# MSc of Education




→ Stundenpläne

→ Studienverlaufspläne

→ Informationen zur Studienfachberatung

…

# Master of Education Biologie | Chemie (Lehramt)

Studienbeginn im Wintersemester (Schulpraxissemester im 1. Semester)

| Fach | | 1. Semester (WiSe) | | 2. Semester (SoSe) | | 3. Semester (WiSe) | | 4. Semester (SoSe) | |
|---|---|---|---|---|---|---|---|---|---|
| Biologie | Schulpraxissemester (12 Wochen, September bis Dezember) | Molekularbiologie, Infektionsbiologie und Gentechnik | 6 LP | Wahlpflichtmodule (mind. 12 LP – siehe Liste der SK Biologie) | 12 LP | | | Fachdidaktik Biologie III | 5 LP |
| | | | | Fachdidaktik Biologie II | 5 LP | | | | |
| | | | | | | | | Exkursion (in der Regel im SoSe; 2. oder 4. Sem) | 3 LP |
| | | | | Wahlpflichtmodule Biologie (mind. 12 LP, siehe Liste der SK Biologie), empfohlen im 2. oder 3. Semester | | | | | |
| Chemie | Schulpraxissemester (12 Wochen, September bis Dezember) | Fortgeschrittenenpraktikum Anorganische Chemie (vorlesungsfreie Zeit) | 3 LP | Wahlpflichtmodule (insgesamt 12 LP) | 3 LP | Wahlpflichtmodule (insgesamt 12 LP) | 9 LP | Fachdidaktik Chemie III (Didactic Design) | 5 LP |
| | | | | Fortgeschrittenenpraktikum Physikalische Chemie | 3 LP | Fortgeschrittenenpraktikum Organische Chemie (vorlesungsfreie Zeit) | 3 LP | | |
| | | | | | | Fachdidaktik Chemie II (Demonstrationskurs) (jedes Semester im Angebot) | 5 LP | | |
| | | | | Wahlpflichtmodule in Chemie im Umfang von 12 LP (Empfehlung: 3-4 LP im 2. Semester, 8-9 LP im 3. Semester) | | | | | |
| Bildungswissen-schaften | Schulpraxis-semester | Praxis-Reflexion (Begleitveranstaltung zum Schulpraktikum) | 4 LP | Grundlagenstudium Lehren, Lernen, Unterrichten | 5 LP | Bildungswissenschaftliche Diagnostik und Heterogenität im Schulkontext | 5 LP | Personale Kompetenz II | 4 LP |
| | | | | Professionsbezogene Vertiefung zum Lehren, Lernen, Unterrichten (Seminar) | 4 LP | Professionsbezogene Vertiefung zum Umgang mit Heterogenität im Schulkontext (Seminar) | 5 LP | | |
| Master-arbeit | | | | | | | | Masterarbeit (in einem der beiden Fächer oder den Bildungswiss.) | 15 LP |

| | | | | | |
|---|---|---|---|---|---|
| 16 LP | 6 LP | 17 LP | 0 LP | 8 LP | **31 LP** |
| | 3 LP | 6 LP | 17 LP | 5 LP | **31 LP** |
| | 4 LP | 9 LP | 10 LP | 19 LP | **58 LP** |
| | 29 LP | 32 LP | 27 LP | 32 LP | **120 LP** |

# Master of Education Mathematik | Biologie (Lehramt)

Studienbeginn im Wintersemester (Schulpraxissemester im 1. Semester)

| Fach | | 1. Semester (WiSe) | | 2. Semester (SoSe) | | 3. Semester (WiSe) | | 4. Semester (SoSe) | |
|---|---|---|---|---|---|---|---|---|---|
| Mathematik | Schulpraxissemester (12 Wochen, September bis Dezember) | | | Fachdidaktik Mathematik II | 5 LP | Fachdidaktik Mathematik III | 5 LP | Wahlpflichtmodul | 9 LP |
| | | | | | | Wahlpflichtmodul | 8 LP | | |
| | | | | | | Seminar in Mathematik (alternativ im SoSe) | 4 LP | | |
| | | Es sind Wahlpflichtmodule aus dem Modulkatalog im Umfang von mindestens 17 LP zu belegen. Darunter sind mindestens 8 LP sind aus dem Bereich „Angewandte Mathematik und mathematische Technologie“ zu wählen. | | | | | | | |
| Biologie | Schulpraxissemester (12 Wochen, September bis Dezember) | Molekularbiologie, Infektionsbiologie und Gentechnik | 6 LP | | | | | Fachdidaktik Biologie III | 5 LP |
| | | | | Fachdidaktik Biologie II | 5 LP | | | | |
| | | | | Exkursion (in der Regel im SoSe) | 3 LP | | | | |
| | | | | Wahlpflichtmodule Biologie (mind. 12 LP, siehe Liste der SK Biologie) | | | | | |
| Bildungswissen-schaften | Schulpraxis-semester | Praxis-Reflexion (Begleitveranstaltung zum Schulpraktikum) | 4 LP | Grundlagenstudium Lehren, Lernen, Unterrichten | 5 LP | Bildungswissenschaftliche Diagnostik und Heterogenität im Schulkontext | 5 LP | Personale Kompetenz II | 4 LP |
| | | | | Professionsbezogene Vertiefung zum Lehren, Lernen, Unterrichten (Seminar) | 4 LP | Professionsbezogene Vertiefung zum Umgang mit Heterogenität im Schulkontext (Seminar) | 5 LP | | |
| Master-arbeit | | | | | | | | Masterarbeit (in einem der beiden Fächer oder den Bildungswiss.) | 15 LP |

| | | | | | |
|---|---|---|---|---|---|
| | 0 LP | 5 LP | 17 LP | 9 LP | **31 LP** |
| | 7 LP | 19 LP | 0 LP | 5 LP | **31 LP** |
| 16 LP | 4 LP | 9 LP | 10 LP | 19 LP | **58 LP** |
| | 27 LP | 33 LP | 27 LP | 33 LP | **120 LP** |

- Wer gerade sein Schulpraxissemester macht: Nur Modul Molekularbiologie, Infektionsbiologie und Gentechnik: 12.01. – 23.01.26, hierzu bald Infos in Email, keine „Anmeldung“ notwendig
  - Weitere Wahlmodule ab SS26

- Wer erst nächstes Jahr Schulpraxissemester macht:
  - Mitmachen bei der Modulwahl (weitere Module werden im Sommersemester angeboten.)
  - Molekularbiologie, Infektionsbiologie und Gentechnik beachten, überschneidet sich mit Adaptation and Diversity in Tropical Ecosystems

- Exkursionen im SS: Reine Exkursionen oder Wahlmodul mit Exkursionanteil. Werden demnächst über die Fachbereichs-Website bekannt gegeben

- Wahlmodule: Alle Module 15 LP, z.T. mit 12 LP Optionen für LehrämtlerInnen

# Master of Education Stundenplan

**M.Ed.Biologie** **1./3. Semester** **Nur Biologie!** **Wintersemester 2025/26** **Stand: 22.07.2025**

FSPO 2022 Änderungen vorbehalten

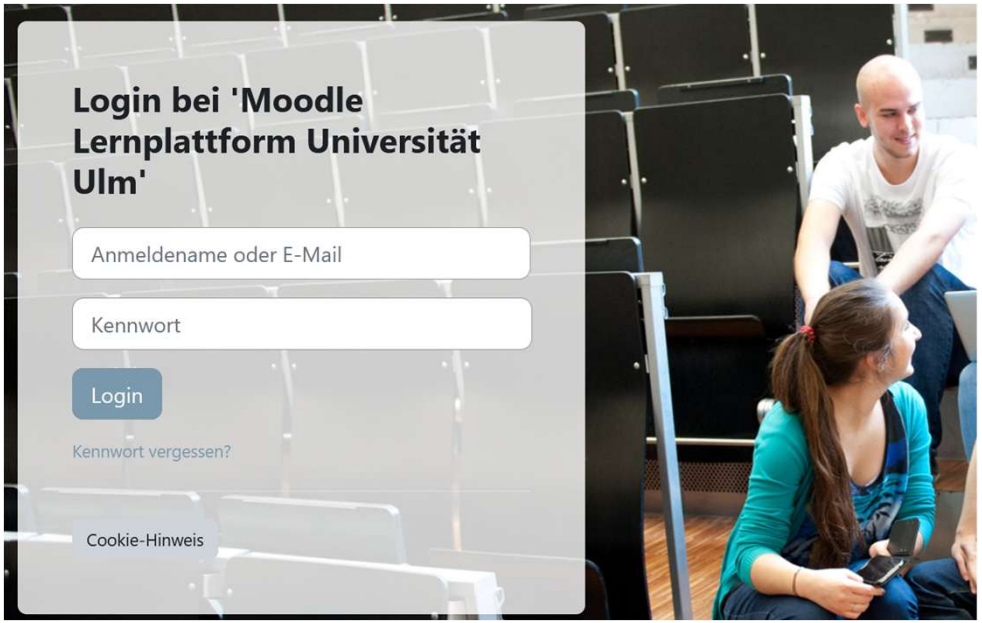
| Zeit | Montag | Dienstag | Mittwoch | Donnerstag | Freitag |
|---|---|---|---|---|---|
| 8-9 | **Blockvorlesung** | **Blockvorlesung** | | | **Blockvorlesung** |
| 9-10 | H8 | H9 | | | H9 |
| 10-11 | | | | **Blockvorlesung** | |
| 11-12 | | | | H8 | |
| 12-13 | **Termine der Mastermodule (Übungen und Blockvorlesungen):** | | | | |
| | Adaptation and Diversity in Tropical Ecosystems: 12.01. - 06.02.26; Tschapka, Jansen | | | | |
| | Conservation Genomics: 03. - 28.11.25; Sommer | | | | |
| 13-14 | | | | | |
| 14-15 | | | | | |
| 15-16 | | | | | |
| 16-17 | | | | | |
| 17-18 | | | | | |
| 18-19 | | | | | |

Pflichtpraktikum + Vorlesung "Molekularbiologie, Gentechnik, Biotechnologie (MEd)": 12.01.26 - 23.01.26; N24/104 & N24/380; Prof. Riedel

# Moodle courses

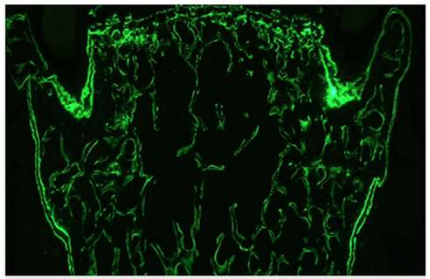
- to all courses/lectures/seminars
- Login with KIZ account
- Enrollment in the individual courses, partly with enrollment key
- Information on courses, teaching videos, teaching materials
- Synchronous events, discussion and question rounds via Zoom

→ https://moodle.uni-ulm.de/login/index.php



# Biological institutions at Ulm university

## Institutes and facilities



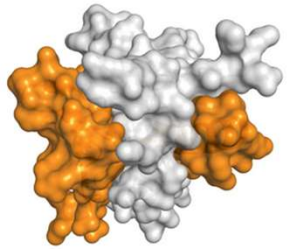
Comparative Molecular Endocrinology and Physiology

Molecular Biology and Biotechnology of Prokrayotes

Evolutionary ecology and conservation genomics.

Neurobiology

Botany



Pharmaceutical biotechnology

Molecular genetics und cell biology

Protein biochemistry

Research Group Microbial Biotechnology

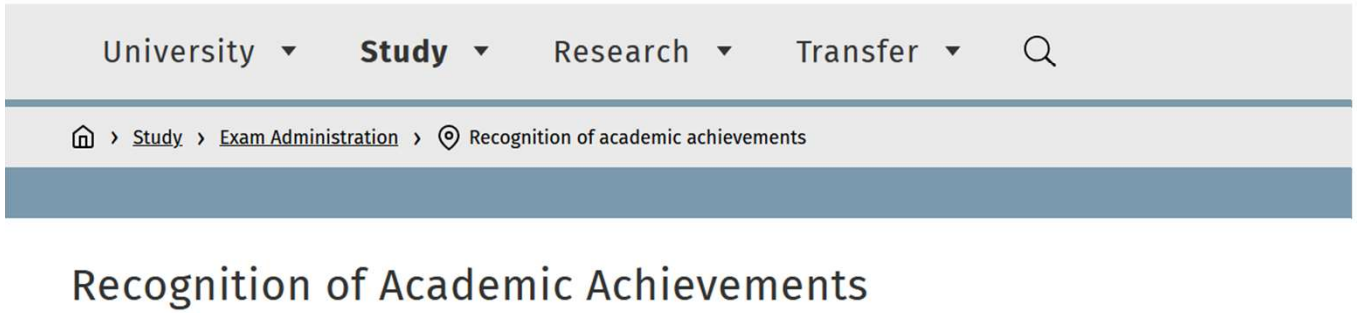
# Study abroad


- Erasmus
- Exchange program with Taiwan
  https://www.uni-ulm.de/nawi/institute-of-molecular-genetics-and-cell-biology/taiwan-exchange/student-exchange-program-ntu-taiwan-for-ulm-students/
- Exchange program with Costa Rica
  https://www.uni-ulm.de/nawi/bio3/teaching-seminars/exchange-program-costa-rica-daad-isap/
- International Office:
  https://www.uni-ulm.de/io/

# Recognizing achievements (§ 19 ASPO)

- Study and examination achievements obtained in other courses of study at universities or universities of cooperative education are recognized upon application
- Prerequisite: no significant difference with regard to the competences and the course scope
- Applications must be submitted within the 1st semester
- Information on the recognition of examination achievements can be found at

https://www.uni-ulm.de/en/study/exam-administration/recognition-of-academic-achievements/

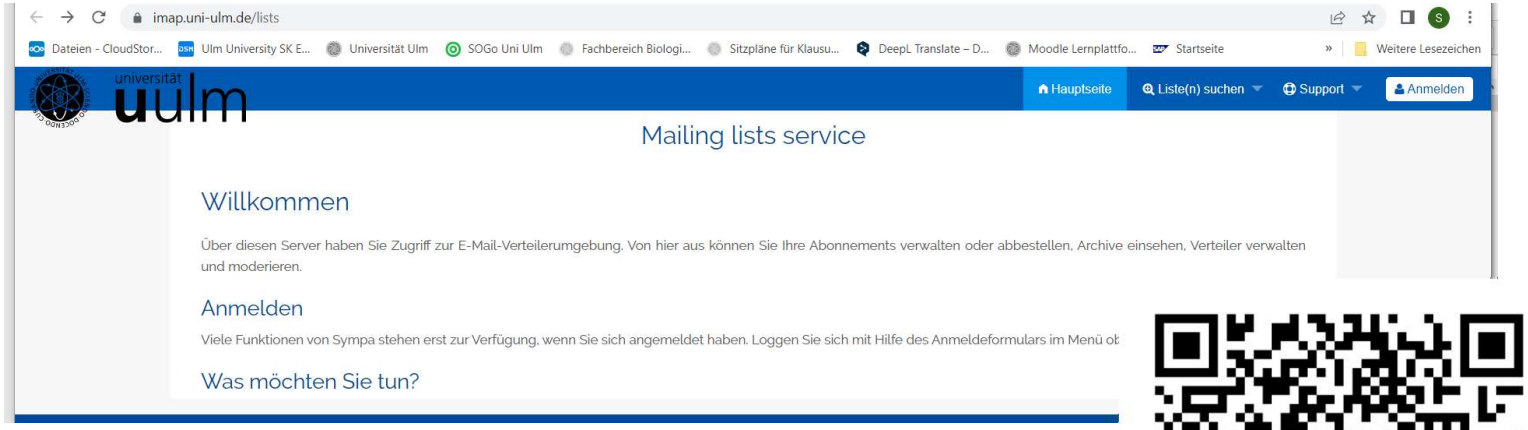


# Important information

Mailing lists for the study programme:

biologymaster@lists.uni-ulm.de, lehramt.biologie@uni-ulm.de

→ subscribe at https://imap.uni-ulm.de/lists



# Important links

Homepage department of biology: https://www.uni-ulm.de/nawi/nawibiologie/fachbereich-biologie-startseite/

- timetables
- Current information
- Examination dates
- Institutes
- committees

https://campusonline.uni-ulm.de

→ Description of modules, exam registration, study plan …, do not use schedule/personal time table

Moodle: https://moodle.uni-ulm.de/login/index.php

→ Information about your courses, course material, zoom links,…

# Mental Health during your studies:
# Here you can find the most important offers

- Staying healthy: Prevention
- Getting healthy: Advice & support
- Looking out for each other: (Self-)help

uni-ulm.de/mentalhealth

Studierendenwerk Ulm
fair_supportive_competent

# COURSE PROGRAM ENGLISH WINTER SEMESTER 2025/26

## of the Psychosocial Counseling Center for Students

IN ENGLISH ONLINE

### RESILIENCE TRAINING

**Being more relaxed in Uni-life with Mindfulness and Self-Compassion**

Explore how stress affects you and learn practical techniques to navigate it with ease in this four-week online course. First-session attendance required. Ready to approach stress differently?

***4-week online course, Wednesdays, 17:00–18:00***
*05.11. / 12.11. / 19.11. / 26.11.2025*
*max. 15 participants*

***Instructor***
*Dr. rer. nat. Sybille Hüfner, trained teacher for Mindful Self-Compassion (MSC), resilience promotion for students, doctoral candidates, and postdocs*

***Registration***
*The course takes place in cooperation with university sports. Information on registration and further details can be obtained via the QR-code.*

IN ENGLISH

### GET IN BALANCE -

**Gentle Body-Mind Training with ZENDO®**

Combine Western relaxation techniques with Eastern practices like yoga and Qi Gong. Through three phases, you'll discover calm, focus, and renewed energy—no prior experience needed. Wear comfortable clothing and bring a cushion & blanket. Get ready to find balance!

***4-week course, Thursdays, 16:00-17:***
*27.11.2025 / 4.12.2025 / 15.1.2026 / 2*
*max. 14 participants*

***Instructor***
*Cynthia Mau, Consultant at the Psycho Counseling Center (PBS) of Studierende Ulm, Systemic Counselor & Therapist (S Relaxation Trainer.*

***Registration***
*The course takes place in cooperation versity sports. Information on registra further details can be obtained via the*

# Thank you for your attention.

ulm university universität ulm