

# Facheinführung/Introduction Biology



Study dean, Prof. Dr. Marcus  
Fändrich

Study course coordinator team



Dr. Stephanie  
Wittig-Blaich,  
Biology



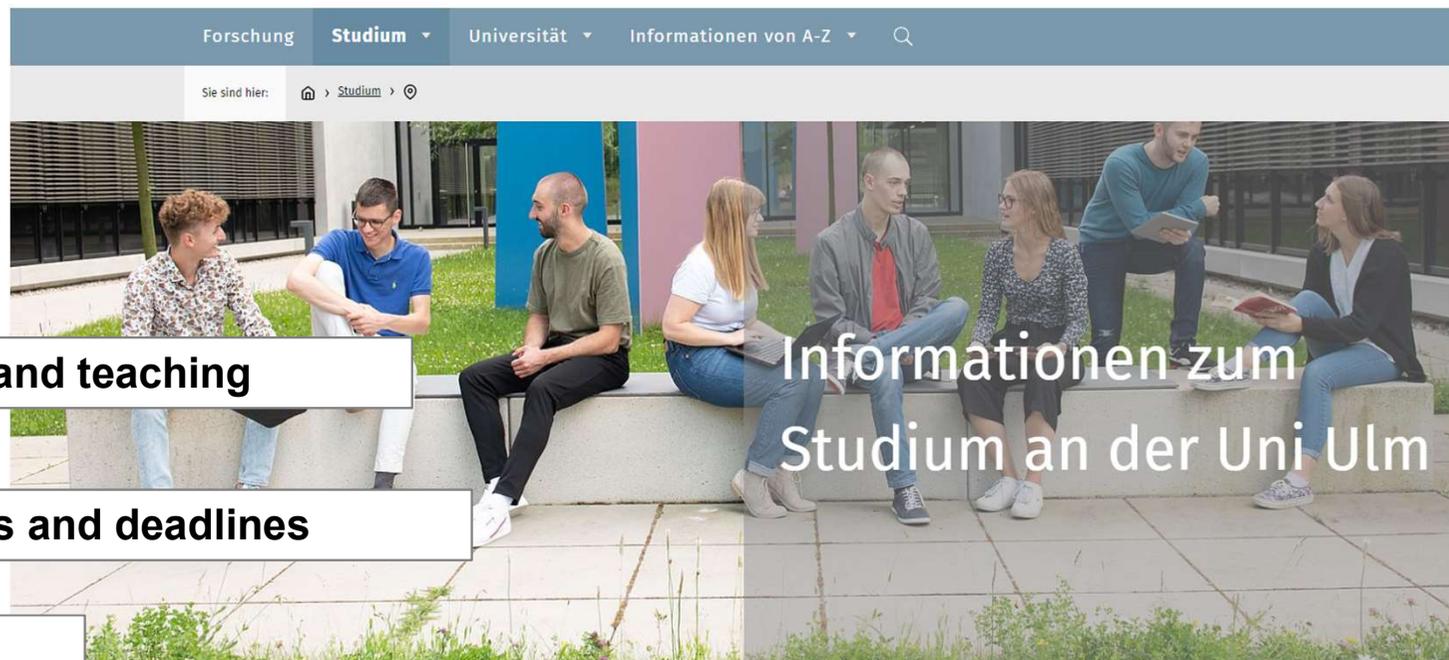
Dr. Lena John,  
Biochemistry



Dr. Eva Keppner,  
teaching profession,  
Internationals

# Uni Ulm – current information about studying at Ulm university

<https://www.uni-ulm.de/en/study/current-information-about-studying-at-ulm-university/>



Portal for study and teaching

fees and deadlines

KIZ-Web-Portal

Campus navigation

Moodle-access

Student ID card

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## Semester dates University Ulm

### Summer semester

01.04. – 30.09.

### lecture periods:

#### Winter semester 2023/2024:

Monday, 16.10.23 – Saturday, 17.02.24

no reading week 24.12.23 – 05.01.24

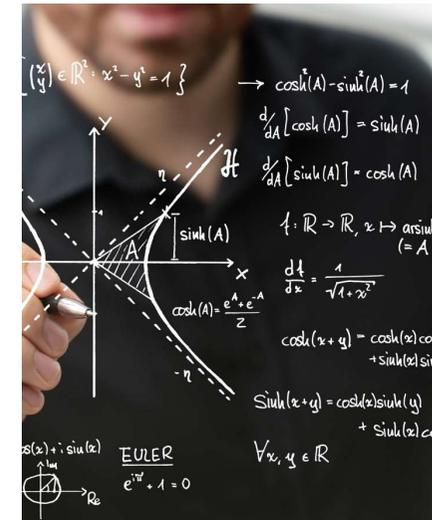
### Winter semester

01.10. – 31.03.

#### Summer semester 2024

Monday, 15.04.24 – Saturday, 20.07.24

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



## Important contact persons

### **Study dean department of biology**

Prof. Dr. Marcus Fändrich, [marcus.faendrich@uni-ulm.de](mailto:marcus.faendrich@uni-ulm.de)

### **Chairman examination board biology**

Prof. Dr. Marco Tschapka, [pa.biologie@uni-ulm.de](mailto:pa.biologie@uni-ulm.de)

### **Study course coordinator biology**

Dr. Stephanie Wittig-Blaich, M24/570, [stephanie.wittig-blaich@uni-ulm.de](mailto:stephanie.wittig-blaich@uni-ulm.de),  
Tel.: 50 21259

### **Study course coordinator teaching profession and international students**

Dr. Eva Keppner, M24/570, [eva.keppner@uni-ulm.de](mailto:eva.keppner@uni-ulm.de), Tel.: 50 23930

### **Secretariat SK biology**

[sekretariat.biologie@uni-ulm.de](mailto:sekretariat.biologie@uni-ulm.de)

### **Student secretariat**

Stephanie Wohletz, [studiensekretariat@uni-ulm.de](mailto:studiensekretariat@uni-ulm.de)

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

## 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>

## Study structure

### Structure of the bachelor's and master's degree programs - integration into the study structure

<b>Mandatory Core competences</b>	<b>Mandatory elective</b> Core competences with focus on major topics	<b>Elective/Free Choice</b>
Mandatory modules 1 - n	Mandatory elective 1- n – study subject	Elective 1- n - with or without reference to the subject, also ASQ
Repeat 2 x	Repeat 2 x	Repeat 2 x
ECTS are regulated by the study programme (FSPO)	Minimum amount of ECTS (FSPO)	Minimum amount of ECTS; Upper limit for ASQ (FSPO);

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## Study plan

- LSF – campusonline Portal
- Department of Biology

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

Areas Modules	Teaching courses	C / CE / Compl.	WS / SS	ECTS
<b>Compulsory area: Biology</b>				<b>24</b>
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)	C	WS / SS	12
<b>Compulsory elective area: Research focus Biology<sup>1</sup></b>				<b>30</b>
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	WS	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
Chemical Ecology	Chemical Ecology (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
Functional morphology (Molecular plant biology)	Functional morphology (L, S, P)	CE	WS	15
(Botany)	to be announced	CE		15
<b>Compulsory elective area: Advanced topics in biological resilience<sup>2</sup></b>				<b>9</b>
Lectures of modules of the area "Research focus Biology", Courses in Biology	depending on choice	CE	WS / SS	3-9
<b>Compulsory elective area: Biology in Praxis<sup>3</sup></b>				<b>3</b>
Excursion	choice from different excursion options	CE	SS	3
Career perspectives in life science	Career perspectives in life science (S)	CE	SS	3
Career exploration in Quality Assurance	(L)	CE	WS	3
<b>Compulsory elective area: Research focus Medicine<sup>4</sup></b>				<b>15</b>
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
<b>Complementary area<sup>5</sup></b>				<b>9</b>
Elective courses from the modules offered at Ulm University	depending on choice	Compl.	WS / SS	9
<b>Compulsory area: Thesis</b>				<b>30</b>
Master thesis	Master thesis (P)	C	WS / SS	30
<b>Sum</b>				<b>120</b>

## Choice of master modules biology

- Moodle-course “Module choice M.Sc. Biology, M.Sc. Biochemistry, M.Ed. Lehramt” (<https://moodle.uni-ulm.de/course/view.php?id=47483>)
- for all first-year students who have not yet elected their biology master modules
- Take part until 18<sup>th</sup> of October 10 am
- Conservation Genomics module, please select no later than 16<sup>th</sup> of October, 6:00 pm
- Protein Biochemistry and Structural Biology modules, please select no later than 16<sup>th</sup> of October, 6:00 pm
- Choice of master modules “research focus medicine” not centrally organized
- moodle courses of the individual modules

## Complementary Area

Clinical Neuroscience	Clinical Neuroscience / Bachelor Training (P)	CE	WS	9
<b>Complementary area*</b>				9
Elective courses from the modules offered at Ulm University	depending on choice	Compl.	WS / SS	9
<b>Compulsory area: Thesis</b>				30
Master thesis	Master thesis (P)	C	WS / SS	30
Sum				120

P: Practical course, L: Lecture, S: Seminar, E: Excursion, C: Compulsory area, CE: Compulsory elective area, Compl.: Complementary area, WS: winter semester, SS: summer semester

- complementary modules are freely chosen outside the respective degree program
- capacity!
- 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/studium/pruefungsverwaltung/formulare-leitfaedenstudierende/modulzuordnung-beantragen/>

# Time table

MSc Biology

1./3. Semester

Winter term 2023/2024

As of: 24.08.23

Subject to change

FSPO 2022

Time	Monday	Tuesday	Wednesday	Thursday	Friday		
8-9	Block lecture	Block lecture	Molecular Biology / Biotechnology (Lecture; until Christmas)	Molecular Biology / Biotechnology (Lecture; until Christmas)	Block lecture		
9-10	N24/104 Tuckermann, Vujic Spasic H13	N24/104 Marchfelder H13	H15 Marchfelder	H13 Marchfelder	N24/101		
10-11	Pharmakologie f. Naturwissenschaftler II (Lecture)	Molekulare Humangenetik (Lecture)	Stress Response & Resilience (Ring lecture)	Virology II part 1 (Lecture)	Clinical Neuroscience	Block lecture	Toxikologie (Lecture)
11-12	Möppts H8	H8 Högel N24/227	alle Profs Bio H13	v. Einem H8	O29/2002	H8 Barth	H16
12-13	<b>Preliminary dates of the Master modules WS 23/24 (Exercises and Block lectures):</b> Adaptation and diversity in tropical ecosystems: 13.11. - 08.12.23; Tschapka, Jansen; N24/201 Conservation genomics: 16.10. - 10.11.23; Sommer; N24/201 Applied Molecular Ecology and Evolution: 15.01. - 09.02.24; Wilfert; N24/201						
13-14	<b>Preliminary dates of the Master modules WS 23/24 (Exercises with semester-long lectures):</b> Endocrinology: 23.10. - 17.11.23; Tuckermann & Vujic; N24/380 Molecular biology of Archaea: 26.02. - 22.03.24; Marchfelder; M25/4405 & 4406						
14-15							
15-16							
16-17							
17-18							
18-19	Career field exploration: "Karriereperspektiven in den Biowissenschaften"  Gronemeyer u.a. H8/online						

## Examinations and deadlines

- 3 attempts per exam
- exam registration via the university portal campusonline / LSF
- 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 to [stephanie.wohletz@uni-ulm.de](mailto:stephanie.wohletz@uni-ulm.de) (before the deadlines!)

- credit deadlines:

after 3. semester: 48 credit points

after 5. semester: 74 credit points

after 7. semester: 120 credit points

otherwise loss of examination rights

## 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)					
<b>Biologie</b>	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					
<b>Chemie</b>	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)					
<b>Bildungswissenschaften</b>	Schulpraxissemester	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		
<b>Masterarbeit</b>							Masterarbeit (in einem der beiden Fächer oder den Bildungswiss.)	15 LP	
	16 LP	6 LP 3 LP 4 LP <hr/> 29 LP	17 LP 6 LP 9 LP <hr/> 32 LP	0 LP 17 LP 10 LP <hr/> 27 LP	8 LP 5 LP 19 LP <hr/> 32 LP	<b>31 LP</b> <b>31 LP</b> <b>58 LP</b> <hr/> <b>120 LP</b>			

## 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)				
<b>Mathematik</b>	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.							
<b>Biologie</b>	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)							
<b>Bildungswissenschaften</b>	Schulpraxissemester	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		
<b>Masterarbeit</b>							Masterarbeit (in einem der beiden Fächer oder den Bildungswiss.)	15 LP	

	0 LP	5 LP	17 LP	9 LP	<b>31 LP</b>
	7 LP	19 LP	0 LP	5 LP	<b>31 LP</b>
16 LP	4 LP	9 LP	10 LP	19 LP	<b>58 LP</b>
	27 LP	33 LP	27 LP	33 LP	<b>120 LP</b>

- **Wer gerade sein Schulpraxissemester macht:** Nur Modul Molekularbiologie, Infektionsbiologie und Gentechnik: 16.01. – 27.01.22, hierzu bald Infos in Email, keine „Anmeldung“ notwendig
  - Weitere Wahlmodule ab SS23
- **Wer erst nächstes Jahr Schulpraxissemester macht:**
  - Mitmachen bei der Modulwahl (weitere Module werden im Sommersemester angeboten.)
  - Molekularbiologie, Infektionsbiologie und Gentechnik: 16.01. – 27.01.22 beachten, überschneidet sich mit Applied Molecular Ecology and Evolution
- **Exkursionen:** Reine Exkursionen oder Wahlmodul mit Exkursionanteil. Werden zu Beginn des nächsten Jahres über die Webseite/Mailingliste bekannt gegeben
- **Wahlmodule** im neuen Studienplan: Alle Module 15 LP, z.T. mit 12 LP Optionen für LehramtlerInnen
- **Generelle Veranstaltungserklärung** auf der Fachbereichsseite

# Master Lehramt Stundenplan

M.Ed. Biologie

1./3. Semester

Wintersemester 2023/2024

Stand: 24.08.23  
Änderungen vorbehalten

Zeit	Montag	Dienstag	Mittwoch	Donnerstag	Freitag
8-9	Block lecture	Block lecture			Block lecture
9-10	N24/104	N24/104			N24/101
10-11				Block lecture	
11-12				H8	
12-13	Preliminary dates of the Master modules WS 22/23 (Exercises and Block lectures): Adaptation and diversity in tropical ecosystems: 13.11. - 08.12.23; Tschapka, Jansen; N24/201 Conservation genomics: 16.10. - 10.11.23; Sommer; N24/201				
13-14	Applied Molecular Ecology and Evolution: 15.01. - 09.02.24; Wilfert; N24/201 Functional Morphology: 23.10.-10.11.23; Wilfert, Jansen (Lecture times differs from Block Lectures)				
14-15					
15-16					
16-17					
17-18					
18-19					

Pflichtpraktikum + Vorlesung "Molekularbiologie, Gentechnik, Biotechnologie (MEB)" 22.01.24 -02.02.24; N24/380, Prof. Riedel

<https://www.uni-ulm.de/nawi/nawibiologie/studierende/studium/lehramt/#c914250>

### Lehrveranstaltungen B. Sc. Lehramt Biologie für Studienbeginner ab WS2022/23

Allgemein	1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester
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### Lehrveranstaltungen M. Ed. Lehramt Biologie für Studienbeginner ab WS2022/23

## 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>



### Courses & Lectures overview



The current listing of all courses including with Moodle course for the winter term 2023/2024 can be found [here](#). Please note that many courses are only activated at the beginning of the semester.

#### Contact

Office Biology Study  
Committee

Biology

- Table with all courses of biology on the department page under "courses"

## 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/nawi/departement-of-biology/students/exams/performance-recognition/>

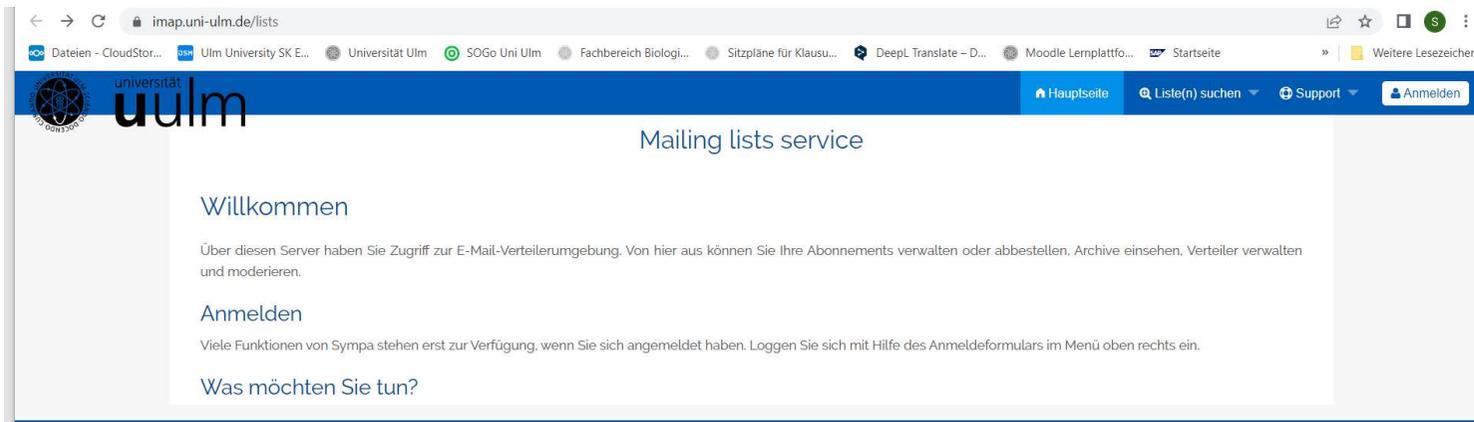
<https://www.uni-ulm.de/en/study/exam-administration/recognizing-achievements/>

## Important information

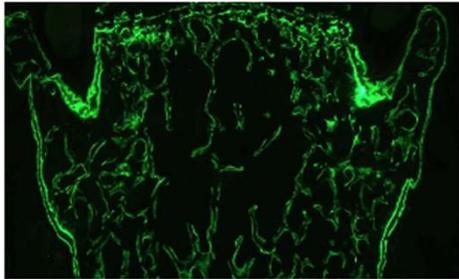
Mailing lists for the study programme:

[biologymaster@lists.uni-ulm.de](mailto:biologymaster@lists.uni-ulm.de), [lehramt.biologie@uni-ulm.de](mailto:lehramt.biologie@uni-ulm.de)

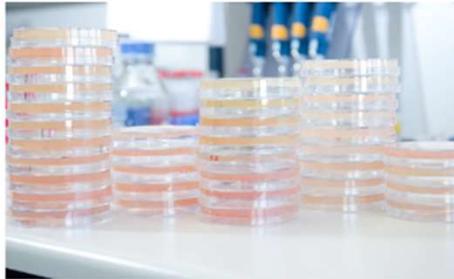
→ subscribe at <https://imap.uni-ulm.de/lists>



## Biological institutions at Ulm university



Molecular endocrinology of animals



Molecular Biology and Biotechnology of Prokaryotes



Evolutionary ecology and conservation genomics.



Neurobiology



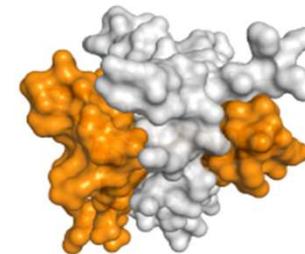
Botany



Molecular genetics und cell biology



Protein biochemistry



Pharmaceutical biotechnology

## Important links

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

- timetables
- Current information
- Examination dates
- Biological colloquium
- Instituts
- committees

LSF: <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,...

Thank you for your attention.



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